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(54) Title: SOLUTION AND CRYSTAL STRUCTURES OF MMP-13 ACTIVE SITE AND USES THEREOF

(57) Abstract: The present invention relates to the three dimensional structure of human collagenase 3 (MMP-13), as well as to (i) methods of using the MMP-13 structure to rationally design or identify compounds or molecules that inhibit or activate MMP-13 activity, and (ii) compounds identified using said methods.

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SOLUTION AND CRYSTAL STRUCTURES OF MMP-13 ACTIVE SITE AND USES THEREOF

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Field of the Invention

The present invention relates to the three dimensional structure of human collagenase 3 (MMP-13), as well as to (i) methods of using the MMP-13 structure to rationally design or identify compounds or molecules that inhibit or activate MMP-13 activity, and (ii) compounds identified using said methods.

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Background of the Invention

Human collagenase-3 (MMP-13) is a member of the matrix metalloproteinase (MMP) family which includes the collagenases, stromelysins and gelatinases. The MMPs are involved in the degradation of the extracellular matrix and are associated with normal tissue remodeling processes such as pregnancy, wound healing, and angiogenesis. MMP expression and activity is highly controlled because of the degradative nature of these enzymes, where an apparent loss in MMP regulation results in the pathological destruction of connective tissue and the ensuing disease state. Accordingly, MMPs are a highly active set of targets for the design of therapeutic agents for the disease areas of arthritis and oncology (for reviews, see Woessner, J. F., FASEB 1991; Ries, C., and Petrides, E., Biol. Chem. Hoppe-Seyler 1995; Browner, M. F., Perspect. Drug Discovery Des. 1995; Morphy, et al., Curr. Med. Chem. 1995; and Zask, et al., Curr. Pharm. Des. 1996).

MMP-13 was identified on the basis of differential expression in normal breast tissues and in breast carcinoma. In addition, its expression has been reported in squamous cell carcinomas of the larynx, head and neck, in HCS-2/8 human chondrosarcoma cells, during fetal ossification, and in articular cartilage of arthritic patients.

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There have been a number of X-ray and NMR structures solved for the catalytic domain of MMPs complexed with a variety of inhibitors (see e.g., Bode, et al., EMBO J. 1994; Gooley, et al., Nat. Struct. Biol. 1994; Lovejoy, et al., Science 1994; Lovejoy, et al., Ann. N. Y. Acad. Sci. 1994; Lovejoy, et al.,

Biochemistry 1994; Spurlino, et al., Proteins: Struct., Funct., Genet. 1994; Stams, et al., Nat. Struct. Biol. 1994; Becker, et al., Protein Sci. 1995; Gonnella, et al., Proc. Natl. Acad. Sci. U.S.A. 1995; Van Doren, et al., Protein Sci. 1995; Botos, et al., Proc. Natl. Acad. Sci. USA 1996; Broutin, et al., Acta Crystallogr., Sect. D: Biol. Crystallogr. 1996; Gooley, et al., J. Biomol. NMR 1996; Betz, et al., Eur. J. Biochem. 1997; Gonnella, et al., Bioorg. Med. Chem. 1997; and Moy, et al., Biochemistry 1998). There is a close similarity in the overall threedimensional fold for these proteins consistent with the relatively high sequence homology (> 40%). Despite this similarity in the MMP structures, there is a distinct substrate specificity between these enzymes indicative of specific 10 biological roles for the various MMPs and a corresponding association with unique disease processes. One example of this potential specificity is the overexpression of MMP-13 in breast carcinoma and MMP-1 in papillary carcinomas. Therefore, the current paradigm in the development of MMP inhibitors is to design specificity into the structures of the small molecule instead of developing a broad spectrum MMP inhibitor (Birkedal-Hansen, et al., Crit. Rev. Oral Biol. Med. 1993; and Rockwell, et al., J. Am. Chem. Soc. 1996). The rationale behind this approach is that an inhibitor specific for the MMP uniquely associated with a disease process may potentially minimize toxic side effects. Therefore, extensive structural information for the various MMPs is critical for a 20 structure-based approach in designing inhibitor selectivity (Birkedal-Hansen, et al., Crit. Rev. Oral Biol. Med. 1993; Rockwell, et al., J. Am. Chem. Soc. 1996; Ghose, et al., J. Am. Chem. Soc. 1995; Hajduk, et al., J. Am. Chem. Soc. 1997;

25 This concept has been facilitated by the extensive structural data available for the MMPs where a significant difference in the size and shape of the S1' pocket has been observed (Moy, et al., Biochemistry 1998; Bode, et al., EMBO J. 1994; Gooley, et al., Nat. Struct. Biol. 1994; Lovejoy, et al., Ann. N.Y. Acad. Sci. 1994; Lovejoy, et al., Biochemistry 1994; Lovejoy, et al., Science 1994; Spurlino, et al., Proteins: Struct., Funct., Genet. 1994; Stams, et al., Nat. Struct. Biol. 1994; Becker, et al., Protein Sci. 1995; Gonnella, et al., Proc. Natl.

and Olejniczak, et al., J. Am. Chem. Soc. 1997).

Acad. Sci. U.S.A. 1995; Van Doren, et al., Protein Sci. 1995; Botos, et al., Proc. Natl. Acad. Sci. U.S.A. 1996; Broutin, et al., Acta Crystallogr., Sect. D: Biol. Crystallogr. 1996; Gooley, et al., J. Biomol. NMR 1996; Betz, et al., Eur. J. Biochem. 1997; and Gonnella, et al., Bioorg. Med. Chem. 1997). This structural difference across the MMP family provides an obvious approach for designing specificity into potent MMP inhibitors by designing compounds that appropriately fill the available space in the S1' pocket while taking advantage of sequence differences. A number of examples have been previously reported using this approach where some selectivity between MMPs has been achieved by incorporating a biphenyl into the S1' pocket (see e.g., Hajduk, et al., J. Am. Chem. Soc. 1997; and Olejniczak, et al., J. Am. Chem. Soc. 1997).

The inventors have determined both the solution and crystal structures of MMP-13, and, using rational drug design methods, have designed a novel, potent inhibitor that is highly selective for MMP-13.

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Summary of the Invention

The present invention relates to the three dimensional structure of human collagenase 3 (MMP-13), and more specifically, to the crystal and solution structures of MMP-13 complexed with the inhibitor N-Hydroxy-2-[(4-methoxy-benzenesulfonyl)-pyridin-3-ylmethyl-amino]-3-methyl-benzamide (hereinafter referred to as "Compound A"), as determined using crystallography, spectroscopy and various computer modeling techniques. Particularly, the invention is directed to an MMP-13 active site comprised of the three dimensional structures of various binding pockets located both to the right (S1', S2', S3') and left (S1, S2, S3) of the catalytic zinc of MMP-13, and most particularly is directed to the three dimensional structure of an MMP-13 active site comprising the catalytic zinc and the S1' binding pocket, which is critical to the design and selection of inhibitors with increased potency and specificity for MMP-13, or conversely, for the design and selection of inhibitors of matrix metalloproteinases that are specific against MMP-13.

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Accordingly, the present invention discloses a solution comprising a biologically active catalytic fragment of human collagenase-3 (MMP-13) complexed with Compound A, as well as a crystallized catalytic fragment of MMP-13 complexed with Compound A. The three dimensional structure of the catalytic fragment of MMP-13 is provided by the relative atomic structural coordinates of Figure 4, as obtained from spectroscopy data, and Figure 5, as obtained from crystallography data. Also provided is an active site of MMP-13, characterized by a catalytic zinc, a beta strand, a Ca²⁺ binding loop, an alpha helix and a random coil region, wherein the beta strand of said active site preferably comprises residues N14, L15, T16, Y17, R18, I19, and V20 according to Figure 1, the Ca²⁺ binding loop comprises residues F75, D76, G77, P78, and S79 according to Figure 1, the alpha helix comprises residues N112, L113, F114, L115, V116, A117, A118, H119, E120, F121, G122, and H123 according to Figure 1, and the random coil region comprises residues P139, I140, and Y141 according to Figure 1. Said active site is further characterized by a three dimensional structure comprising the relative structural coordinates of the catalytic zinc and amino acid residues N14, L15, T16, Y17, R18, I19, V20, F75, D76, G77, P78, S79, N112, L113, F114, L115, V116, A117, A118, H119, E120, F121, G122, H123, P139, I140, and Y141 according to the solution or crystal coordinates of Figures 4 or 5, respectively, in each case, \pm a root mean square deviation from the catalytic zinc and conserved backbone atoms of said amino acids of not more than 1.5Å.

In an alternate embodiment of the invention, an active site of MMP-13 is characterized by a three dimensional structure comprising the relative structural coordinates of the catalytic zinc and amino acid residues L81, L82, L115, V116, H119, L136 and I140 according to the solution or crystal coordinates of Figures 4 or 5, respectively, in each case, \pm a root mean square deviation from the catalytic zinc and conserved backbone atoms of said amino acids of not more than 1.5Å.

The solution or crystal structural coordinates of MMP-13 or portions thereof as provided by this invention may be stored in a

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machine-readable form on a machine-readable storage medium, e.g. a computer hard drive, diskette, DAT tape, etc., for display as a three-dimensional shape or for other uses involving computer-assisted manipulation of, or computation based on, the structural coordinates or the three-dimensional structures they define. By way of example, the data defining the three dimensional structure of MMP-13 or an MMP-13 complex of the present invention, or of a portion of MMP-13 or an MMP-13 complex as disclosed herein, may be stored in a machine-readable storage medium, and may be displayed as a graphical three-dimensional representation of the relevant structural coordinates, typically using a computer capable of reading the data from said storage medium and programmed with instructions for creating the representation from such data.

Accordingly, the present invention provides a machine, such as a computer, programmed in memory with the coordinates of the MMP-13 molecule or molecular complex, or portions thereof (such as, by way of example, the coordinates of the MMP-13 catalytic zinc with adjacent S1', S2' and/or S3' binding pockets), together with a program capable of converting the coordinates into a three dimensional graphical representation of the structural coordinates on a display connected to the machine. A machine having a memory containing such data aids in the rational design or selection of inhibitors or activators of MMP-13 activity, including the evaluation of ability of a particular chemical entity to favorably associate with MMP-13 or an MMP-13 complex as disclosed herein, as well as in the modeling of compounds, proteins, complexes, etc. related by structural or sequence homology to MMP-13.

The present invention is additionally directed to a method of

determining the three dimensional structure of a molecule or molecular complex
whose structure is unknown, comprising the steps of first obtaining crystals or a
solution of the molecule or molecular complex whose structure is unknown, and
then generating X-ray diffraction data from the crystallized molecule or
molecular complex and/or generating NMR data from the solution of the

molecule or molecular complex. The generated diffraction or spectroscopy data
from the molecule or molecular complex can then be compared with the known

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three dimensional structure of MMP-13 as disclosed herein, and the three dimensional structure of the unknown molecule or molecular complex conformed to the known MMP-13 structure using standard techniques such as molecular replacement analysis, 2D, 3D and 4D isotope filtering, editing and triple resonance NMR techniques, and computer homology modeling. Alternatively, a three dimensional model of the unknown molecule may be generated by generating a sequence alignment between MMP-13 and the unknown molecule, based on any or all of amino acid sequence identity, secondary structure elements or tertiary folds, and then generating by computer modeling a three dimensional structure for the molecule using the three dimensional structure of, and sequence alignment with, MMP-13.

The present invention further provides a method for identifying a potential inhibitor or activator of MMP-13, comprising the steps of using a three dimensional structure of MMP-13 as defined by the relative structural coordinates of amino acids encoding MMP-13 to design or select a potential inhibitor or activator, and synthesizing or obtaining said potential inhibitor or activator. The inhibitor or activator may be selected by screening an appropriate database, may designed *de novo* by analyzing the steric configurations and charge potentials of an empty MMP-13 active site in conjunction with the appropriate software programs, or may be designed using characteristics of known inhibitors or activators to MMP-13 or other collagenases in order to create "hybrid" activators or inhibitors. The method of the present invention is preferably used to design or select inhibitors of MMP-13 activity.

Alternatively, the present invention provides a method for identifying a potential inhibitor or activator that is selective for one or more members of the matrix metalloproteinase family except MMP-13, comprising the steps of (i) using the three dimensional structures of MMP-13 and the desired target matrix metalloproteinase(s) as defined by the relative structural coordinates of amino acids encoding MMP-13 and the target matrix metalloproteinase(s) in order to design or select such a potential inhibitor or

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activator, and (ii) synthesizing or obtaining said potential inhibitor or activator. In this case, the potential inhibitor or activator is designed to incorporate chemical or steric features favorable for association with an active site of the desired matrix metalloproteinase(s) and unfavorable for association with an MMP-13 active site, preferably where said active site comprises the MMP-13 S1' pocket. The inhibitor or activator may be selected by screening an appropriate database, may designed *de novo* by analyzing the steric configurations and charge potentials of empty MMP-13/matrix metalloproteinase active sites in conjunction with the appropriate software programs, or may be designed using characteristics of known inhibitors or activators to MMP-13 or other collagenases in order to create "hybrid" activators or inhibitors.

Also provided by the present invention are the inhibitors and activators designed or selected using the methods disclosed herein.

Brief Description of the Figures

Figure 1 depicts the amino acid sequence encoding the catalytic fragment of human MMP-13.

Figure 2 depicts the sequence based alignment between (A) MMP-13 and MMP-8 and (B) MMP-13 and MMP-1 used for the MMP-13 homology model.

Figure 3 is an illustration of the sulfonamide derivative of the hydroxamic inhibitor N-Hydroxy-2-[(4-methoxy-benzenesulfonyl)-pyridin-3-ylmethyl-amino]-3-methyl-benzamide (Compound A), with the corresponding proton labels.

Figure 4 lists the atomic structure coordinates for the restrained minimized mean structure of MMP-13 complexed with Compound A as derived by NMR spectroscopy. "Atom type" refers to the atom whose coordinates are being measured. "Residue" refers to the type of residue of which each measured atom is a part - i.e., amino acid, cofactor, ligand or solvent. The "x, y and z" coordinates indicate the Cartesian coordinates of each measured atom's location

(Å). All non-protein atoms (Compound A, zinc and calcium) are listed as HETATM instead of atoms using PDB conventions.

Figure 5 lists the atomic structure coordinates for MMP-13 as derived by X-ray diffraction of a crystallized MMP-13:Compound A complex.

Figure headings are as noted above, except "Occ" indicates the occupancy factor, and "B" indicates the "B-value", which is a measure of how mobile the atom is in the atomic structure (Å²). "MOL" indicates the segment identification used to uniquely identify each molecule in the crystal.

Figure 6 is an illustration of the Compound B inhibitor, with the corresponding proton labels.

Figure 7 is a design scheme dividing 2-[Benzyl-(4-phenethyloxy-benzenesulfonyl)-amino]-N-hydroxy-3,5-dimethyl-benzamide (hereinafter referred to as "Compound C") into two components corresponding to its potency component (2-[Benzyl-(4-methoxy-benzenesulfonyl)-amino]-N-hydroxy-3,5-dimethyl-benzamide, hereinafter referred to as "Compound D") and its selectivity component, thereby providing the basis for the design of a hybrid inhibitor with Compound B.

Figure 8A is a design scheme showing the flow from Compound B and Compound C to the hybrid inhibitor benzofuran-2-carboxylic acid (2-{4-20 [benzyl-(2-hydroxycarbamoyl-4,6-dimethyl-phenyl)-sulfamoyl]-phenoxy}-ethyl)-amide (hereinafter referred to as "Compound E"). Figure 8B illustrates an expanded view of the NMR MMP-13:Compound B complex overlayed with the MMP-13:Compound D model, demonstrating the approach to forming the hybrid inhibitor Compound E. The MMP-13 active site is shown as a grid surface with Compound B and Compound D shown as liquorice bonds. The view is looking at the S1' pocket.

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Detailed Description of the Invention

As used herein, the following terms and phrases shall have the meanings set forth below:

"Compound A" is N-Hydroxy-2-[(4-methoxy-benzenesulfonyl)pyridin-3-ylmethyl-amino]-3-methyl-benzamide, as shown in Figure 3.

"Compound B" is the compound having the chemical structure shown in Figure 6. "Compound C" is 2-[Benzyl-(4-phenethyloxy-benzenesulfonyl)-amino]-N-hydroxy-3,5-dimethyl-benzamide, as shown in Figure 7. "Compound D" is 2-[Benzyl-(4-methoxy-benzenesulfonyl)-amino]-N-hydroxy-3,5-dimethyl-benzamide, also shown in Figure 7. "Compound E" is Benzofuran-2-carboxylic acid (2-{4-[benzyl-(2-hydroxycarbamoyl-4,6-dimethyl-phenyl)-sulfamoyl]-phenoxy}-ethyl)-amide, as shown in Figure 8A. "Compound F" is 2-(Benzyl-4-(3-phenyl-propoxy)-benzenesulfonyl]-amino)-N-hydroxy-3,5-dimethyl-benzamide.

Unless otherwise noted, "MMP-13" includes both human collagenase 3 as encoded by the amino acid sequence of Figure 1 (including conservative substitutions thereof), as well as "MMP-13 analogues", defined herein as proteins comprising an MMP-13 like active site as defined by the present invention, including, but not limited to, an active site characterized by a three dimensional structure comprising the relative structural coordinates of the catalytic zinc and amino acid residues L81, L82, L115, V116, H119, L136 and I140 according to the solution or crystal coordinates of Figures 4 or 5, respectively, in each case, ± a root mean square deviation from the catalytic zinc and conserved backbone atoms of said amino acids of not more than 1.5Å, or more preferably, not more than 1.0Å, or most preferably, not more than 0.5Å. Alternatively, an MMP-13 analogue of the present invention is a protein which comprises an MMP-13 like active site characterized by a catalytic zinc, a beta strand, a Ca²⁺ binding loop, an alpha helix and a random coil region, or, more particularly, comprising an active site characterized by a three dimensional structure comprising the relative structural coordinates of the catalytic zinc and of amino acid residues N14, L15, T16, Y17, R18, I19, V20,

F75, D76, G77, P78, S79, N112, L113, F114, L115, V116, A117, A118, H119, E120, F121, G122, H123, P139, I140, and Y141 according to Figures 4 or 5, or more preferably, where said three dimensional structure further comprises the relative structural coordinates of amino acid residues G80, L81, L82, A83, H84, A85, K109, G110, Y111, S124, L125, G126, L127, D128, H129, S130, K131, D132, P133, G134, A135, L136, M137, F138, T142, Y143, T144, and G145 according to Figures 4 or 5, or most preferably, where said three dimensional structure still further comprises the relative structural coordinates of F149 and P152 according to Figures 4 or 5, in each case, \pm a root mean square deviation from the catalytic zinc and the conserved backbone atoms (N, C α , C, and O) of said amino acids of not more than 1.5Å (or more preferably, not more than 1.0Å, or most preferably, not more than 0.5Å).

Unless otherwise indicated, "protein" or "molecule" shall include a protein, protein domain, polypeptide or peptide.

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"Structural coordinates" are the Cartesian coordinates corresponding to an atom's spatial relationship to other atoms in a molecule or molecular complex. Structural coordinates may be obtained using x-ray crystallography techniques or NMR techniques, or may be derived using molecular replacement analysis or homology modeling. Various software programs allow for the graphical representation of a set of structural coordinates to obtain a three dimensional representation of a molecule or molecular complex. The structural coordinates of the present invention may be modified from the original sets provided in Figures 4 or 5 by mathematical manipulation, such as by inversion or integer additions or subtractions. As such, it is recognized that the structural coordinates of the present invention are relative, and are in no way specifically limited by the actual x, y, z coordinates of Figures 4 and 5. Further, it is recognized that the structural coordinates taken from Figure 5 may be from either molecule of MMP-13 catalytic fragment in the MMP-13:Compound A crystal (i.e., from A-13 or B-13).

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An "agent" shall include a protein, polypeptide, peptide, nucleic acid, including DNA or RNA, molecule, compound, antibiotic or drug.

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"Root mean square deviation" is the square root of the arithmetic mean of the squares of the deviations from the mean, and is a way of expressing deviation or variation from the structural coordinates described herein.

It will be obvious to the skilled practitioner that the numbering of the amino acid residues in the various isoforms of MMP-13 or in MMP-13 analogues covered by the present invention may be different than that set forth herein, or may contain certain conservative amino acid substitutions that yield the same three dimensional structures as those defined by Figures 4 or 5 herein. Corresponding amino acids and conservative substitutions in other isoforms or analogues are easily identified by visual inspection of the relevant amino acid 10 sequences or by using commercially available homology software programs. "Conservative substitutions" are those amino acid substitutions which are functionally equivalent to the substituted amino acid residue, either by way of having similar polarity, steric arrangement, or by belonging to the same class as the substituted residue (e.g., hydrophobic, acidic or basic), and includes 15 substitutions having an inconsequential effect on the three dimensional structure of MMP-13 with respect to the use of said structure for the identification and design of MMP-13 activators or inhibitors, for molecular replacement analyses and/or for homology modeling.

An "active site" refers to a region of a molecule or molecular complex that, as a result of its shape and charge potential, favorably interacts or associates with another agent (including, without limitation, a protein, polypeptide, peptide, nucleic acid, including DNA or RNA, molecule, compound, antibiotic or drug). As such, the active site may include both the actual site of substrate cleavage or collagenase activity, as well as certain or all binding sites or pockets adjacent to the site of substrate cleavage that nonetheless may affect MMP-13 activity upon interaction or association with an agent, either by direct interference with the site of substrate cleavage or by indirectly affecting the steric conformation or charge potential of the MMP-13 molecule. The catalytic center of the MMP-13 molecule is characterized by a zinc atom chelated by H119, H123 and H129. MMP-13 binding sites or pockets located to the right of

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the catalytic zinc include S1', S2' and S3'. Binding sites or pockets to the left of the catalytic zinc include S1, S2 and S3.

The present invention relates to the three dimensional structure of human collagenase 3 (MMP-13) or an MMP-13 analogue, and more specifically, to the crystal and solution structures of MMP-13 complexed with an inhibitor, referred to herein as "Compound A", as determined using crystallography, spectroscopy and various computer modeling techniques. The three dimensional solution and crystal structures of the MMP-13:Compound A complex (as disclosed herein at Figures 4 or 5, respectively) and the uncomplexed MMP-13 catalytic fragment (which may be computationally 10 derived from the structural coordinates of Figures 4 or 5) are useful for a number of applications, including, but not limited to, the visualization, identification and characterization of MMP-13 active sites, including the MMP-13 catalytic zinc chelated by H119, H123 and H129, as well as the various MMP-13 binding pockets adjacent to the catalytic zinc of the MMP-13 molecule. The active site structures may then be used to predict the orientation and binding affinity of a designed or selected activator or inhibitor of the MMP-13 protein. Accordingly, the invention is particularly directed to the three dimensional structure of an MMP-13 active site, including but not limited to the S1', S2', S3', S1, S2 and/or S3 binding pockets, taken separately or together 20 with the catalytic zinc of the MMP-13 molecule.

The present invention provides a solution comprising a biologically active catalytic fragment of human collagenase-3 (MMP-13) complexed with Compound A. In a particular embodiment, the catalytic fragment of MMP-13 comprises the amino acid residues of Figure 1, or conservative substitutions thereof. Preferably, the solution provided for herein comprises MMP-13 complexed with Compound A in a 1:1 molar ratio, and more preferably comprises 1 mM MMP-13 in an equimolar complex with Compound A, in a buffer comprising 10mM deuterated Tris-Base, 100mM NaCl, 5mM CaCl₂, 0.1mM ZnCl₂, 2mM NaN₃, and 10 mM deuterated DTT in either 90% H₂O/10% D₂O or 100% D₂O, at a preferred pH of 6.5. The concentration of

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MMP-13:Compound A in the solution should be high enough to yield a good signal-to-noise ratio in the NMR spectrum, but not so high as to result in precipitation or aggregation of the protein. Further, the MMP-13 of the solution may be either ¹⁵N enriched or ¹⁵N, ¹³C enriched. As exemplified below, NMR spectra from the solution of the present invention are preferably obtained at a temperature of 35°C.

The secondary structure of the catalytic fragment used in the solution of the present invention comprises three alpha helices and a mixed parallel and anti-parallel beta sheet comprising five beta strands, configured in the order β_{I} , α_{A} , β_{II} , β_{III} , β_{IV} , β_{V} , α_{B} , and α_{C} . The three alpha helices correspond to residues 28-44 (α_{A}), 112-123 (α_{B}) and 153-163 (α_{C}) of Figure 1, and the five beta strands correspond to residues 83-86 (β_{I}), 95-100 (β_{II}), 59-66 (β_{III}), 14-20 (β_{IV}), and 49-53 (β_{V}) of Figure 1, respectively. While the solution of the present invention comprises MMP-13 in a 1:1 molar ratio with Compound A, it is understood that one of ordinary skill in the art may devise additional solutions using alternate inhibitors or ligands in the appropriate molar concentrations, thereby preventing the auto-degradation of MMP-13 and creating a solution of sufficient stability and concentration to obtain a usable NMR spectrum.

The protein used in the solution of the present invention includes

MMP-13, as well as MMP-13 analogues, where said protein comprises an active site characterized by the three dimensional structure comprising the relative structural coordinates of the catalytic zinc and amino acid residues L81, L82, L115, V116, H119, L136 and I140 (or conservative substitutions thereof) according to the solution coordinates of Figure 4, ± a root mean square

deviation from the catalytic zinc and the conserved backbone atoms of said amino acids of not more than 1.5Å, or more preferably, not more than 1.0Å, or most preferably, not more than 0.5Å. These residues comprise the residues most closely associated with Compound A in the MMP-13:Compound A complex, as determined from the observed NOEs between MMP-13 and Compound A (Table

Alternatively, a protein used in the solution of the present invention comprises an active site characterized by a catalytic zinc, a beta strand (comprising amino acid residues N14, L15, T16, Y17, R18, I19, and V20 or conservative substitutions thereof), a Ca2+ binding loop (comprising amino acid resídues F75, D76, G77, P78, and S79 or conservative substitutions thereof), an alpha helix (comprising amino acid residues N112, L113, F114, L115, V116, A117, A118, H119, E120, F121, G122, and H123 or conservative substitutions thereof) and a random coil region (comprising amino acid residues P139, I140, and Y141 or conservative substitutions thereof), or, more particularly, 10 characterized by a three dimensional structure comprising the relative structural coordinates of the catalytic zinc and the amino acid residues N14, L15, T16, Y17, R18, I19, V20, F75, D76, G77, P78, S79, N112, L113, F114, L115, V116, A117, A118, H119, E120, F121, G122, H123, P139, I140, and Y141 according to Figure 4, or more preferably, where said three dimensional structure further comprises the relative structural coordinates of amino acid residues G80, L81, L82, A83, H84, A85, K109, G110, Y111, S124, L125, G126, L127, D128, H129, S130, K131, D132, P133, G134, A135, L136, M137, F138, T142, Y143, T144, and G145 according to Figure 4 (incorporating an S1' pocket in the active site), or most preferably, where said three dimensional structure still further 20 comprises the relative structural coordinates of F149 and P152 according to Figure 4 (further defining a hydrophobic area at the bottom of the S1' pocket), including, in each case, conservative substitutions of said amino acids and, in each case, ± a root mean square deviation from the catalytic zinc and the conserved backbone atoms (N, Ca, C, and O) of said amino acids of not more than 1.5Å (or more preferably, not more than 1.0Å, or most preferably, not 25 more than 0.5Å). Finally, in the most preferred embodiment, the protein used in the solution of the present invention comprises the complete structural coordinates according to Figure 4, \pm a root mean square deviation from the conserved backbone atoms of said amino acids (or conservative substitutions thereof) of not more than 1.5Å (or more preferably, not more than 1.0Å, and 30 most preferably, not more than 0.5Å).

Also provided by the present invention is a crystallized catalytic fragment of MMP-13 complexed with Compound A. The crystal of the present invention effectively diffracts X-rays for the determination of the structural coordinates of the MMP-13:Compound A complex, and is characterized as being in orthorhombic form with space group P21212, and having unit cell parameters of a=108.3Å, b=79.8Å, and c=36.1Å. Further, the crystal complex of the present invention consists of two molecules of MMP-13:Compound A complex in the asymmetric crystal unit.

In a preferred embodiment, the MMP-13 of the crystal complex of the present invention comprises the amino acid residues of Figure 1 (or conservative substitutions thereof), and is characterized by a secondary structure comprising three alpha helices and a mixed parallel and anti-parallel beta sheet comprising five beta strands, configured in the order β_I , α_A , β_{II} , β_{III} , β_{IV} , β_V , α_B , and α_C . Further, the three alpha helices preferably correspond to residues 28-44 (α_A), 112-123 (α_B) and 153-163 (α_C) of Figure 1, and the five beta strands correspond to residues 83-86 (β_I), 95-100 (β_{II}), 59-66 (β_{III}), 14-20 (β_{IV}), and 49-53 (β_V) of Figure 1, respectively.

The protein used in the crystal or crystal complex of the present invention includes MMP-13, as well as MMP-13 analogues, where said protein comprises an active site characterized by the three dimensional structure comprising the relative structural coordinates of the catalytic zinc and amino acid residues L81, L82, L115, V116, H119, L136 and I140 (or conservative substitutions thereof) according to the crystal coordinates of Figure 5, ± a root mean square deviation from the catalytic zinc and the conserved backbone atoms of said amino acids of not more than 1.5Å, or more preferably, not more than 1.0Å, or most preferably, not more than 0.5Å.

Alternatively, a protein used in the crystal or crystal complex of the present invention comprises an active site characterized by a catalytic zinc, a beta strand (comprising amino acid residues N14, L15, T16, Y17, R18, I19, and V20 or conservative substitutions thereof), a Ca²⁺ binding loop (comprising amino acid residues F75, D76, G77, P78, and S79 or conservative substitutions

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thereof), an alpha helix (comprising amino acid residues N112, L113, F114, L115, V116, A117, A118, H119, E120, F121, G122, and H123 or conservative substitutions thereof) and a random coil region (comprising amino acid residues P139, I140, and Y141 or conservative substitutions thereof), or, more particularly, characterized by a three dimensional structure comprising the relative structural coordinates of the catalytic zinc and amino acid residues N14, L15, T16, Y17, R18, I19, V20, F75, D76, G77, P78, S79, N112, L113, F114, (A) (C. 1887) L115, V116, A117, A118, H119, E120, F121, G122, H123, P139, I140, and Y141 according to Figure 5, or more preferably, where said three dimensional structure further comprises the relative structural coordinates of amino acid 10 residues G80, L81, L82, A83, H84, A85, K109, G110, Y111, S124, L125, G126, L127, D128, H129, S130, K131, D132, P133, G134, A135, L136, M137, F138, T142, Y143, T144, and G145 according to Figure 5 (incorporating an S1' pocket in the active site), or most preferably, where said three dimensional structure still further comprises the relative structural coordinates of F149 and P152 according to Figure 5 (further defining a hydrophobic area at the bottom of the S1' pocket), in each case, including conservative substitutions of the said amino acids and, in each case, ± a root mean square deviation from the catalytic zinc and the conserved backbone atoms of said amino acids of not more than 1.5Å (or more preferably, not more than 1.0Å, or most preferably, not more than 20 0.5Å).

Finally, in the most preferred embodiment, the protein used in the crystal of the present invention comprises the complete structural coordinates according to Figure 5, \pm a root mean square deviation from the conserved backbone atoms of said amino acids (or conservative substitutions thereof) of not more than 1.5Å (or more preferably, not more than 1.0Å, and most preferably, not more than 0.5Å).

Molecular modeling methods known in the art may be used to identify an active site or binding pocket of the MMP-13 molecule, MMP-13 molecular complex, or an MMP-13 analogue. Specifically, the structural coordinates provided by the present invention may be used to characterize a

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three dimensional model of the MMP-13 molecule, molecular complex or MMP-13 analogue. From such a model, putative active sites may be computationally visualized, identified and characterized based on the surface structure of the molecule, surface charge, steric arrangement, the presence of reactive amino acids, regions of hydrophobicity or hydrophilicity, etc. Such putative active sites may be further refined using chemical shift perturbations of spectra generated from various and distinct MMP-13 complexes, competitive and non-competitive inhibition experiments, and/or by the generation and characterization of MMP-13 mutants to identify critical residues or characteristics of the active site.

The identification of putative active sites of a molecule or molecular complex is of great importance, as most often the biological activity of a molecule or molecular complex results from the interaction between an agent and one or more active sites of the molecule or molecular complex. Accordingly, the active sites of a molecule or molecular complex are the best targets to use in the design or selection of activators or inhibitors that affect the activity of the molecule or molecular complex.

The present invention is directed to an active site of MMP-13 or an MMP-13 analogue, that, as a result of its shape, reactivity, charge potential, etc., favorably interacts or associates with another agent (including, without limitation, a protein, polypeptide, peptide, nucleic acid, including DNA or RNA, molecule, compound, antibiotic or drug). As such, the active site of the present invention includes both the actual site of substrate cleavage or collagenase activity (the catalytic zinc chelated by H119, H123, and H129), as well as binding sites or pockets adjacent to the site of substrate cleavage (i.e., S1', S2', S3', S1, S2, and/or S3) that may nonetheless affect MMP-13 activity upon interaction or association with an agent, either by direct interference with the site of substrate cleavage or by indirectly affecting the steric conformation or charge potential of the MMP-13 molecule. Accordingly, the present invention is directed to an active site of the MMP-13 molecule characterized by a zinc atom chelated by H119, H123 and H129, and preferably the S1' binding pocket to the right of the catalytic zinc.

In an alternate embodiment, the active site of the present invention is characterized by the three dimensional structure comprising the relative structural coordinates of the catalytic zinc and amino acid residues L81, L82, L115, V116, H119, L136 and I140 (or conservative substitutions thereof) according to the solution or crystal coordinates of Figures 4 or 5, respectively, in each case, \pm a root mean square deviation from the catalytic zinc and the conserved backbone atoms of said amino acids of not more than 1.5Å, or more preferably, not more than 1.0Å, or most preferably, not more than 0.5Å.

Alternatively, the active site of the present invention is characterized by a catalytic zinc, a beta strand (comprising amino acid residues 10 N14, L15, T16, Y17, R18, I19, and V20 or conservative substitutions thereof), a Ca²⁺ binding loop (comprising amino acid residues F75, D76, G77, P78, and S79 or conservative substitutions thereof), an alpha helix (comprising amino acid residues N112, L113, F114, L115, V116, A117, A118, H119, E120, F121, G122, and H123 or conservative substitutions thereof) and a random coil region (comprising amino acid residues P139, I140, and Y141 or conservative substitutions thereof), or, more particularly, is characterized by a three dimensional structure comprising the relative solution or crystal structural coordinates of the catalytic zinc and amino acid residues N14, L15, T16, Y17, R18, I19, V20, F75, D76, G77, P78, S79, N112, L113, F114, L115, V116, A117, 20 A118, H119, E120, F121, G122, H123, P139, I140, and Y141 according to Figures 4 or 5, respectively, or more preferably, where said three dimensional structure further comprises the relative solution or crystal structural coordinates of amino acid residues G80, L81, L82, A83, H84, A85, K109, G110, Y111, S124, L125, G126, L127, D128, H129, S130, K131, D132, P133, G134, A135, L136, 25 M137, F138, T142, Y143, T144, and G145 according to Figures 4 or 5, or most preferably, where said three dimensional structure still further comprises the relative solution or crystal structural coordinates of F149 and P152 according to Figures 4 or 5, in each case, including conservative substitutions of said amino acids, and in each case, \pm a root mean square deviation from the catalytic zinc 30 and the conserved backbone atoms of said amino acids of not more than 1.5Å

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(or more preferably, not more than 1.0Å, or most preferably, not more than 0.5Å).

In order to use the structural coordinates generated for a crystal or solution structure of the present invention as set forth in Figures 4 and 5, respectively, it is often necessary to display the relevant coordinates as, or convert them to, a three dimensional shape or graphical representation, or to otherwise manipulate them. For example, a three dimensional representation of the structural coordinates is often used in rational drug design, molecular replacement analysis, homology modeling, and mutation analysis. This is typically accomplished using any of a wide variety of commercially available 10 software programs capable of generating three dimensional graphical representations of molecules or portions thereof from a set of structural coordinates. Examples of said commercially available software programs include, without limitation, the following: GRID (Oxford University, Oxford, UK); MCSS (Molecular Simulations, San Diego, CA); AUTODOCK (Scripps 15 Research Institute, La Jolla, CA); DOCK (University of California, San Francisco, CA); Flo99 (Thistlesoft, Morris Township, NJ); Ludi (Molecular Simulations, San Diego, CA); QUANTA (Molecular Simulations, San Diego, CA); Insight (Molecular Simulations, San Diego, CA); SYBYL (TRIPOS, Inc., St. Louis. MO); 20 and LEAPFROG (TRIPOS, Inc., St. Louis, MO).

For storage, transfer and use with such programs, a machine, such as a computer, is provided for that produces a three dimensional representation of the MMP-13 molecule, a portion thereof (such as an active site or a binding site), a MMP-13 molecular complex, or an MMP-13 analogue. The machine of the present invention comprises a machine-readable data storage medium comprising a data storage material encoded with machine-readable data. Machine-readable storage media comprising data storage material include conventional computer hard drives, floppy disks, DAT tape, CD-ROM, and other magnetic, magneto-optical, optical, floptical and other media which may be adapted for use with a computer. The machine of the present invention also comprises a working memory for storing instructions for processing the

machine-readable data, as well as a central processing unit (CPU) coupled to the working memory and to the machine-readable data storage medium for the purpose of processing the machine-readable data into the desired three dimensional representation. Finally, the machine of the present invention further comprises a display connected to the CPU so that the three dimensional representation may be visualized by the user. Accordingly, when used with a machine programmed with instructions for using said data, e.g., a computer loaded with one or more programs of the sort identified above, the machine provided for herein is capable of displaying a graphical three-dimensional representation of any of the molecules or molecular complexes, or portions of molecules of molecular complexes, described herein.

In one embodiment of the invention, the machine-readable data comprises the relative structural coordinates of the catalytic zinc and amino acid residues L81, L82, L115, V116, H119, L136 and I140 according to Figures 4 or 5, in each case, including conservative substitutions thereof, and in each case, \pm a root mean square deviation from the catalytic zinc and the conserved backbone atoms of said amino acids of not more than 1.5Å (or more preferably, not more than 1.0Å, and most preferably, not more than 0.5Å), wherein said structural coordinates characterize an active site of MMP-13 or an MMP-13 analogue.

In an alternate preferred embodiment, the machine-readable data comprises the structural coordinates of the catalytic zinc and amino acid residues N14, L15, T16, Y17, R18, I19, V20, F75, D76, G77, P78, S79, N112, L113, F114, L115, V116, A117, A118, H119, E120, F121, G122, H123, P139, I140, and Y141 according to Figures 4 or 5, in each case, including conservative substitutions thereof, and in each case, ± a root mean square deviation from the catalytic zinc and the conserved backbone atoms of said amino acids of not more than 1.5Å (or more preferably, not more than 1.0Å, and most preferably, not more than 0.5Å). In an even more preferred embodiment, the machine-readable data further comprises the relative structural coordinates of amino acid residues G80, L81, L82, A83, H84, A85, K109, G110, Y111, S124, L125, G126,

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L127, D128, H129, S130, K131, D132, P133, G134, A135, L136, M137, F138, T142, Y143, T144, and G145 according to Figures 4 or 5, or most preferably, still further comprises the relative structural coordinates of F149 and P152 according to Figures 4 or 5, in each case, including conservative substitutions of said amino acids, and in each case, \pm a root mean square deviation from the catalytic zinc and the conserved backbone atoms of said amino acids of not more than 1.5Å (or more preferably, not more than 1.0Å, or most preferably, not more than 0.5Å).

Finally, it is most preferred that the machine-readable data

comprise the relative structural coordinates of all residues constituting the MMP-13 catalytic fragment according to Figures 4 or 5, in each case, ± a root mean square deviation from the conserved backbone atoms of said amino acids of not more than 1.5Å. In each case, the noted embodiments comprise conservative substitutions of the noted residues resulting in same structural coordinates within the stated root mean square deviation.

The structural coordinates of the present invention permit the use of various molecular design and analysis techniques in order to (i) solve the three dimensional structures of related molecules, molecular complexes or MMP-13 analogues, and (ii) to design, select, and synthesize chemical agents capable of favorably associating or interacting with an active site of an MMP-13 molecule or MMP-13 analogue, wherein said chemical agents potentially act as activators or inhibitors of MMP-13 or of an MMP-13 analogue.

More specifically, the present invention provides a method for determining the molecular structure of a molecule or molecular complex whose structure is unknown, comprising the steps of obtaining crystals or a solution of the molecule or molecular complex whose structure is unknown, and then generating x-ray diffraction data from the crystallized molecule or molecular complex, and/or generating NMR data from the solution of the molecule or molecular complex whose structure is unknown is then compared to the x-ray diffraction data obtained from the MMP-13:Compound A crystal of the present invention.

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Alternatively, the NMR data from the molecule or molecular structure whose structure is unknown is then compared with the NMR data obtained from the MMP-13:Compound A solution of the present invention. Then, molecular replacement analysis is used to conform the three dimensional structure

5 determined from the MMP-13:Compound A crystal of solution of the present invention to the x-ray diffraction data from the unknown molecule or molecular complex, or, alternatively, 2D, 3D and 4D isotope filtering, editing and triple resonance NMR techniques are used to conform the three dimensional structure determined from the MMP-13:Compound A solution of the present invention to the NMR data from the solution molecule or molecular complex.

Molecular replacement analysis uses a molecule having a known structure as a starting point to model the structure of an unknown crystalline sample. This technique is based on the principle that two molecules which have similar structures, orientations and positions will diffract x-rays similarly. A corresponding approach to molecular replacement is applicable to modeling an unknown solution structure using NMR technology. The NMR spectra and resulting analysis of the NMR data for two similar structures will be essentially identical for regions of the proteins that are structurally conserved, where the NMR analysis consists of obtaining the NMR resonance assignments and the structural constraint assignments, which may contain hydrogen bond, distance, dihedral angle, coupling constant, chemical shift and dipolar coupling constant constraints. The observed differences in the NMR spectra of the two structures will highlight the differences between the two structures and identify the corresponding differences in the structural constraints. The structure determination process for the unknown structure is then based on modifying the NMR constraints from the known structure to be consistent with the observed spectral differences between the NMR spectra.

Accordingly, in one non-limiting embodiment of the invention, the resonance assignments for the MMP-13:Compound A complex provide the starting point for resonance assignments of MMP-13 in a new MMP-13:"unsolved agent" complex. Chemical shift perturbances in two dimensional

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¹⁵N/¹H spectra can be observed and compared between the MMP-13:Compound A complex and the new MMP-13:agent complex. In this way, the affected residues may be correlated with the three dimensional structure of MMP-13 as provided by the relevant residues of Figure 4. This effectively identifies the region of the MMP-13:agent complex that has incurred a structural change relative to the MMP-13:Compound A complex. The ¹H, ¹⁵N, ¹³C and ¹³CO NMR resonance assignments corresponding to both the sequential backbone and sidechain amino acid assignments of MMP-13 may then be obtained and the three dimensional structure of the new MMP-13:agent complex may be generated using standard 2D, 3D and 4D triple resonance NMR techniques and NMR assignment methodology, using the MMP-13:Compound A structure, resonance assignments and structural constraints as a reference. Various computer fitting analyses of the new agent with the three dimensional model of MMP-13 may be performed in order to generate an initial three dimensional model of the new agent complexed with MMP-13, and the resulting three dimensional model may be refined using standard experimental constraints and energy minimization techniques in order to position and orient the new agent in association with the three dimensional structure of MMP-13.

The present invention further provides that the structural coordinates of the present invention may be used with standard homology 20 modeling techniques in order to determine the unknown three-dimensional structure of a molecule or molecular complex. Homology modeling involves constructing a model of an unknown structure using structural coordinates of one or more related protein molecules, molecular complexes or parts thereof (i.e., active sites). Homology modeling may be conducted by fitting common or 25 homologous portions of the protein whose three dimensional structure is to be solved to the three dimensional structure of homologous structural elements in the known molecule, specifically using the relevant (i.e., homologous) structural coordinates provided by Figures 4 and/or 5 herein. Homology may be determined using amino acid sequence identity, homologous secondary 30 structure elements, and/or homologous tertiary folds. Homology modeling can

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include rebuilding part or all of a three dimensional structure with replacement of amino acids (or other components) by those of the related structure to be solved.

Accordingly, a three dimensional structure for the unknown molecule or molecular complex may be generated using the three dimensional structure of the MMP-13:Compound A complex of the present invention, refined using a number of techniques well known in the art, and then used in the same fashion as the structural coordinates of the present invention, for instance, in applications involving molecular replacement analysis, homology modeling, and rational drug design.

Determination of the three dimensional structure of MMP-13 and its catalytic active site as disclosed herein is critical to the rational identification and/or design of therapeutic agents that may act as inhibitors or activators of MMP-13 enzymatic activity. Alternatively, using conventional drug assay techniques, the only way to identify such an agent is to screen thousands of test compounds, either in culture or by administration to suitable animal models in a laboratory setting, until an agent having the desired inhibitory or activating effect on a target compound is identified. Necessarily, such conventional screening methods are expensive, time consuming, and do not elucidate the method of action of the identified agent on the target compound.

However, advancing X-ray, spectroscopic and computer modeling technologies allow researchers to visualize the three dimensional structure of a targeted compound. Using such a three dimensional structure, researchers identify putative binding sites and then identify or design agents to interact with these binding sites. These agents are then screened for an activating or inhibitory effect upon the target molecule. In this manner, not only are the number of agents to be screened for the desired activity greatly reduced, but the mechanism of action on the target compound is better understood.

Accordingly, the present invention further provides a method for identifying a potential inhibitor or activator of MMP-13, comprising the steps of using a three dimensional structure of MMP-13 as defined by the relative

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structural coordinates of amino acids encoding MMP-13 to design or select a potential inhibitor or activator, and synthesizing or obtaining said potential inhibitor or activator. The inhibitor or activator may be selected by screening an appropriate database, may designed de novo by analyzing the steric configurations and charge potentials of an empty MMP-13 active site in conjunction with the appropriate software programs, or may be designed using characteristics of known inhibitors or activators to MMP-13 or other collagenases in order to create "hybrid" activators or inhibitors. The method of the present invention is preferably used to design or select inhibitors of MMP-13 activity.

An agent that interacts or associates with an active site of MMP-13 or an MMP-13 analogue may be identified by determining an active site of MMP-13 or of the MMP-13 analogue from a three dimensional model of the MMP-13 or MMP-13 analogue, and performing computer fitting analyses to identify an agent which interacts or associates with said active site. Computer fitting analyses utilize various computer software programs that evaluate the "fit" between the putative active site and the identified agent, by (a) generating a three dimensional model of the putative active site of a molecule or molecular complex using homology modeling or the atomic structural coordinates of the active site, and (b) determining the degree of association between the putative active site and the identified agent. The degree of association may be determined computationally by any number of commercially available software programs, or may be determined experimentally using standard binding assays.

Three dimensional models of the putative active site may be generated using any one of a number of methods known in the art, and include, but are not limited to, homology modeling as well as computer analysis of raw structural coordinate data generated using crystallographic or spectroscopy techniques. Computer programs used to generate such three dimensional models and/or perform the necessary fitting analyses include, but are not limited to: GRID (Oxford University, Oxford, UK), MCSS (Molecular 30 Simulations, San Diego, CA), AUTODOCK (Scripps Research Institute, La Jolla,

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CA), DOCK (University of California, San Francisco, CA), Flo99 (Thistlesoft, Morris Township, NJ), Ludi (Molecular Simulations, San Diego, CA), QUANTA (Molecular Simulations, San Diego, CA), Insight (Molecular Simulations, San Diego, CA), SYBYL (TRIPOS, Inc., St. Louis. MO) and LEAPFROG (TRIPOS, Inc., St. Louis, MO).

In a preferred method of the present invention, the identified active site of MMP-13 or the MMP-13 analogue comprises a catalytic zinc, a beta strand, a Ca²⁺ binding loop, an alpha helix and a random coil region. More preferably, the identified active site comprises a catalytic zinc, a beta strand comprising residues N14, L15, T16, Y17, R18, I19, and V20 according to Figure 1 (or conservative substitutions thereof), a Ca²⁺ binding loop comprising residues F75, D76, G77, P78, and S79 according to Figure 1 (or conservative substitutions thereof), an alpha helix comprising residues N112, L113, F114, L115, V116, A117, A118, H119, E120, F121, G122, and H123 according to Figure 1 (or conservative substitutions thereof), and a random coil region comprising residues P139, I140, and Y141 according to Figure 1 (or conservative substitutions thereof).

More specifically, the identified active site of the present method comprises the relative structural coordinates of the catalytic zinc and amino acid residues N14, L15, T16, Y17, R18, I19, V20, F75, D76, G77, P78, S79, N112, L113, F114, L115, V116, A117, A118, H119, E120, F121, G122, H123, P139, I140, and Y141 according to Figures 4 or 5, in each case, including conservative substitutions of said amino acids, and in each case, \pm a root mean square deviation from the catalytic zinc and the conserved backbone atoms of said amino acids of not more than 1.5Å (or more preferably, not more than 1.0Å, or most preferably, not more than 0.5Å). In an alternate preferred embodiment, the identified active site further comprises the relative structural coordinates of amino acid residues G80, L81, L82, A83, H84, A85, K109, G110, Y111, S124, L125, G126, L127, D128, H129, S130, K131, D132, P133, G134, A135, L136, M137, F138, T142, Y143, T144, and G145 according to Figures 4 or 5, in each case, including conservative substitutions of said amino acids, and in each case,

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± a root mean square deviation from the conserved backbone atoms of said amino acids of not more than 1.5Å (or more preferably, not more than 1.0Å, or most preferably, not more than 0.5Å). In yet a third preferred embodiment, the identified active site of the present method further comprises the relative structural coordinates of amino acid residues F149 and P152 according to Figures 4 or 5, in each case, including conservative substitutions of said amino acids, and in each case, ± a root mean square deviation from the conserved backbone atoms of said amino acids of not more than 1.5Å (or more preferably, not more than 1.0Å, or most preferably, not more than 0.5Å). Embodiments comprising conservative substitutions of the noted amino acids result in the same structural coordinates of the corresponding residues in Figures 4 or 5 within the stated root mean square deviation.

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The effect of such an agent identified by computer fitting analyses on MMP-13 (or MMP-13 analogue) activity may be further evaluated computationally, or experimentally by contacting the identified agent with MMP-13 (or an MMP-13 analogue) and measuring the effect of the agent on the enzyme's activity. Depending upon the action of the agent on the active site of MMP-13, the agent may act either as an inhibitor or activator of MMP-13 activity. Standard enzymatic assays may be performed and the results analyzed to determine whether the agent is an inhibitor of MMP-13 activity (i.e., the agent may reduce or prevent binding affinity between MMP-13 and the relevant substrate, and thereby reduce the level or rate of MMP-13 activity compared to baseline), or an activator of MMP-13 activity (i.e., the agent may increase binding affinity between MMP-13 and the relevant substrate, and thereby increase the level or rate of MMP-13 activity compared to baseline). Further tests may be performed to evaluate the selectivity of the identified agent to MMP-13 with regard to the other metalloproteinases.

Agents designed or selected to interact with MMP-13 must be capable of both physically and structurally associating with MMP-13 via various covalent and/or non-covalent molecular interactions, and of assuming a three

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dimensional configuration and orientation that complements the relevant active site of the MMP-13 molecule.

Accordingly, using these criteria, the structural coordinates of the MMP-13:Compound A complex as disclosed herein, and/or structural coordinates derived therefrom using molecular replacement analysis or homology modeling, agents may be designed to increase either or both of the potency and selectivity of known inhibitors or activators, either by modifying the structure of known inhibitors or activators or by designing new agents *de novo* via computational inspection of the three dimensional configuration and electrostatic potential of an MMP-13 active site.

Accordingly, in one embodiment of the invention, the structural coordinates of Figures 4 or 5 of the present invention, or structural coordinates derived therefrom using molecular replacement or homology modeling techniques as discussed above, are used to screen a database for agents that may act as potential inhibitors or activators of MMP-13 activity (or the activity of MMP-13 analogues). Specifically, the obtained structural coordinates of the present invention are read into a software package and the three dimensional structure is analyzed graphically. A number of computational software packages may be used for the analysis of structural coordinates, including, but not limited to, Sybyl (Tripos Associates), QUANTA and XPLOR (Brunger, A.T., (1993) XPLOR Version 3.1 Manual, Yale University, New Haven, CT). Additional software programs check for the correctness of the coordinates with regard to features such as bond and atom types. If necessary, the three dimensional structure is modified and then energy minimized using the appropriate software until all of the structural parameters are at their equilibrium/optimal values. The energy minimized structure is superimposed against the original structure to make sure there are no significant deviations between the original and the energy minimized coordinates.

The energy minimized coordinates of MMP-13 complexed with a "solved" inhibitor or activator are then analyzed and the interactions between the solved ligand and MMP-13 are identified. The final MMP-13 structure is

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modified by graphically removing the solved inhibitor or activator so that only MMP-13 and a few residues of the solved agent are left for analysis of the binding site cavity. QSAR and SAR analysis and/or conformational analysis may be carried out to determine how other inhibitors or activators compare to the solved inhibitor or activator. The solved agent may be docked into the uncomplexed structure's binding site to be used as a template for data base searching, using software to create excluded volume and distance restrained queries for the searches. Structures qualifying as hits are then screened for activity using standard assays and other methods known in the art.

Further, once the specific interaction is determined between the solved inhibitor or activator, docking studies with different inhibitors or activators allow for the generation of initial models of new inhibitors or activators in complex with MMP-13. The integrity of these new models may be evaluated a number of ways, including constrained conformational analysis using molecular dynamics methods (i.e., where both MMP-13 and the complexed activator or inhibitor are allowed to sample different three dimensional conformational states until the most favorable state is reached or found to exist between the protein and the complexed agent). The final structure as proposed by the molecular dynamics analysis is analyzed visually to make sure that the model is in accord with known experimental SAR based on measured binding affinities. Once models are obtained of the original solved agent bound to MMP-13 and computer models of other molecules bound to MMP-13, strategies are determined for designing modifications into the activators or inhibitors to improve their activity and/or enhance their selectivity.

Once an MMP-13 binding agent has been optimally selected or designed, as described above, substitutions may then be made in some of its atoms or side groups in order to improve or modify its selectivity and binding properties. Generally, initial substitutions are conservative, i.e., the replacement group will have approximately the same size, shape, hydrophobicity and charge as the

original group. Such substituted chemical compounds may then be analyzed for efficiency of fit to MMP-13 by the same computer methods described in detail above.

Alternatively, the present invention provides a method for identifying a potential inhibitor or activator that is selective for one or more members of the matrix metalloproteinase family except MMP-13, comprising the steps of (i) using the three dimensional structures of MMP-13 and the desired target matrix metalloproteinase(s) as defined by the relative structural coordinates of amino acids encoding MMP-13 and the target matrix metalloproteinase(s) in order to design or select such a potential inhibitor or 10 activator, and (ii) synthesizing or obtaining said potential inhibitor or activator. In this case, the potential inhibitor or activator is designed to incorporate chemical or steric features favorable for association with an active site of the desired matrix metalloproteinase(s) and unfavorable for association with an MMP-13 active site, preferably where said active site comprises the MMP-13 S1' pocket. The inhibitor or activator may be selected by screening an appropriate database, may designed de novo by analyzing the steric configurations and charge potentials of empty MMP-13/matrix metalloproteinase active sites in conjunction with the appropriate software programs, or may be designed using characteristics of known inhibitors or activators to MMP-13 or other 20 collagenases in order to create "hybrid" activators or inhibitors.

Various molecular analysis and rational drug design techniques are further disclosed in U.S. Patent Nos. 5,834,228, 5,939,528 and 5,865,116, as well as in PCT Application No. PCT/US98/16879, published as WO 99/09148, the contents of which are hereby incorporated by reference.

The present invention may be better understood by reference to the following non-limiting Examples. The following Examples are presented in order to more fully illustrate the preferred embodiments of the invention, and should in no way be construed as limiting the scope of the present invention.

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Example 1

¹H, ¹⁵N and ¹³CO Assignments and Secondary Structure Determination of MMP-13 Complexed with Compound A

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Methods and Results: The uniform ¹⁵N and ¹³C- labeled 165 amino-acid catalytic fragment of human collagenase-3 (MMP-13) was expressed in E. coli strain BL21(DE3) containing the plasmid pProMMP-13 according to a published method (Freije et al., J. Biol. Chem. 1994). MMP-13 was purified as previously described (Moy et al., J. Biomol. 1997) with minor modifications. N-terminal 10 amino acid sequencing was performed to confirm the protein's identity while the uniform ¹⁵N and ¹³C labeling of MMP-13 was confirmed by MALDI-TOF mass spectrometry (PerSeptive Biosystems). The sulfonamide derivative of the hydroxamic acid compound, N-Hydroxy-2-[(4-methoxy-benzenesulfonyl)pyridin-3-ylmethyl-amino]-3-methyl-benzamide, was prepared from 2-amino-3-15 methyl-benzoic acid methyl ester and p-methoxybenzenesulfonyl chloride followed by alkylation with 3-picolyl chloride, hydrolysis (LiOH/THF) to afford the carboxylic acid and conversion to the hydroxamic acid (oxalyl chloride/DMF/NH2OH). Formation of the HCl salt yielded Compound A as shown in Figure 3. 20

The NMR samples contained 1 mM of MMP-13 determined spectrophotometrically in a equimolar complex with Compound A in a buffer containing 10 mM deuterated Tris-Base, 100 mM NaCl, 5 mM CaCl₂, 0.1 mM ZnCl₂, 2 mM NaN₃, 10 mM deuterated DTT, in either 90% H₂O/ 10% D₂O or 100% D₂O at pH 6.5. All NMR spectra were recorded at 35°C on a Bruker AMX-2 600 spectrometer equipped with a triple-resonance gradient probe.

Spectra were processed using the NMRPipe software package (Delaglio *et al.*, <u>J. Biomol. NMR</u> 1995) and analyzed with PIPP (Garrett *et al.*, <u>J. Magn. Reson</u>. 1991), NMRPipe and PEAK-SORT, an in-house software package. The assignments of the ¹H, ¹⁵N, ¹³CO, and ¹³C resonances were based on the following experiments: CBCA(CO)NH, CBCANH, C(CO)NH, HC(CO)NH,

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HBHA(CO)NH, HNCO, HCACO, HNHA, HNCA, HCCH-COSY and HCCH-TOCSY (for reviews, see Bax *et al.*, Methods Enzymol. 1994; and Clore & Gronenborn, Methods Enzymol. 1994). The accuracy of the MMP-13 NMR assignments was further confirmed by sequential NOEs in the ¹⁵N-edited NOESY-HSQC spectra.

Prior to analysis of the MMP-13 NMR structure, the structure determination of the inhibitor-free catalytic fragment of MMP-1 has been reported (Moy et al., Biochemistry 1998; Moy et al., J. Biomol. NMR 1997) (30 simulated annealing structures deposited with Protein Data Bank, Accession No. 1AYK; restrained minimized mean structure deposited with Protein Data Bank, Accession No. 2AYK). Because the MMPs are highly autocatalytic, the NMR analysis of the inhibitor-free MMP-1 was accomplished by establishing buffer conditions where the enzyme was still active but the rate of self-cleavage of the enzyme had been diminished. This was achieved by the addition of DTT which significantly diminished self-aggregation of the enzyme and by lowering the pH of the sample to 6.5, just above the pH where the enzyme was known to be inactivated because of the loss of the catalytic zinc. Under these conditions, an MMP-1 NMR sample was typically stable for 1-2 months. Unfortunately this was not the case for MMP-13, the protein rapidly degraded within a few hours which required the use of an inhibitor to assign the MMP-13 NMR resonances.

The secondary structure of the MMP-13:Compound A complex is based on characteristic NOE data involving the NH, H α and H β protons from 15 N-edited NOESY-HSQC and 13 C-edited NOESY-HMQC spectra, 3 JHN α coupling constants from HNHA, slowly exchanging NH protons and 13 C α and 13 C β secondary chemical shifts (for reviews, see Wishart & Sykes, Methods Enzymol. 1994; and Wuthrich, NMR of Proteins and Nucleic Acids, John Wiley & Sons, New York 1986). It was determined that the MMP-13 NMR structure in the complex is composed of three α -helices corresponding to residues 28-44 (a $_{\alpha}$), 112-123 (a $_{\beta}$) and 153-163 (a $_{c}$) and a mixed parallel and anti-parallel β -sheet consisting of 5 strands corresponding to residues 83-86 (β_{1}), 95-100 (β_{2}), 59-66 (β_{3}), 14-20 (β_{4}) and 49-53 (β_{5}). This is essentially identical to the secondary structure observed for other MMP structures.

There were three distinct regions in the MMP-13:Compound A spectra where the resonance assignments are incomplete. These correspond to residues G70-Y73, P87-N91 and T144-H148. Residues T144-H148 correspond to part of the dynamic loop region previously seen in the MMP-1 structure (Moy et al., J. Biomol. NMR 1997). This suggests a similar dynamic profile for this region in the MMP-13 structure even in the presence of a high-affinity inhibitor (IC₅₀ = 33 nM). Residues P87 to N91 contain a cluster of prolines which disrupt the sequential assignment process because of the missing NH. Residues G70 to Y73 correspond to a loop region in the vicinity of the structural zinc which was readily assigned in the MMP-1 structure. The backbone and side-chain 1 H, 15 N, 13 C, and 13 CO assignments are essentially complete for the remainder of the protein.

Example 2

15 High Resolution Solution Structure of the Catalytic Fragment of MMP-13 Complexed with Compound A

Materials and Methods:

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Preparation of Compound A: The sulfonamide derivative of the hydroxamic acid
compound, Compound A, was prepared according to the procedure noted in
Example 1 to yield the compound of Figure 3.

Expression of recombinant ¹⁵N and ¹³C/ ¹⁵N-labeled MMP-13: A 169-residue C-terminally truncated human collagenase-3 (MMP-13) was expressed in *E. coli*. The coding sequence of a C-terminally truncated procollagenase was amplified by PCR from the plasmid pNot3a, that contains the entire coding sequence of MMP-13 (Frieje, *et al.*, <u>J. Biol. Chem.</u> 1994). The PCR primers contained the appropriate restriction sites for ease of cloning. The construct codes for a truncated proMMP-13 with an N-terminal methionine added and a C-terminal proline at residue 169 of the native proMMP-13 sequence. The PCR amplified DNA fragment was the cloned into pET-21a (+) at the Nde I/Sal I sites,

resulting in a recombinant plasmid designated as pProMMP-13. *E. coli* bacteria, BL21(DE3), containing the plasmid pProMMP-13, were grown in LB broth supplemented with 100 μ g/ml ampicilin. An overnight culture was diluted 1:20 and grown at 37°C to an A_{600} of 0.6-0.8 with vigorous shaking. Isopropyl β -D-galactoside (IPTG) was added to a final concentration of 1 mM and cultures were shaken for 3 h at 37°C. The cells were harvested by centrifugation (7000 Xg for 15 min) at 4°C, washed with PBS, and frozen at -70°C until further use.

Uniform ¹⁵N and ¹³C- labeled ProMMP-13 was obtained by growing BL21(DE3) E. coli in defined media containing 2.0 g/l [¹³C6, 98%+]D-glucose and 1.0 g/l [¹⁵N, 98%+] ammonium chloride as the sole carbon and nitrogen sources, respectively. In addition, the defined media contained M9 salts (Sambrook, *et al.*, Molecular Cloning: A Laboratory Manual, Cold Spring Harbor Laboratory Press, New York, NY 1989), trace elements, vitamins and 100 μg/ml ampicilin. Conditions for induction and growth were the same as above.

Purification of recombinant ¹⁵N and ¹³C MMP-13: MMP-13 was purified according to Moy et al., J. <u>Biomol. NMR</u> 1997, with modifications as follows. Frozen cell pellets were thawed on ice. Cells were resuspended by homogenization in lysis buffer (0.1 M Tricine, pH 8.0, 10 mM EDTA, 2mM DTT, 0.5 mM PMSF). Cells were lysed by French Press (2X) followed by treatment with lysozyme (1 mg/ml; final) at room temperature for 30 min. The lysate was centrifuged at 45,000 x g for 30 minutes. The pellet was washed twice with 50 mM Tricine pH 7.5, 0.2 M NaCl₂, 0.5% Triton X-100, resuspended in fresh urea buffer (20 mM Tricine, pH 7.5, 8 M urea, 0.2% NaN₃, 2 mM DTT) and incubated at room temperature for 1 hour. The urea solubilized protein was centrifuged at 45,000 x g for 30 min and the resultant supernatant was filtered and applied to a Hitrap-Q Sepharose (Pharmacia Biotech) anion exchange column equilibrated in 6 M urea buffer. The column was washed with urea buffer and eluted with a 0-0.25 M NaCl linear gradient. Fractions containing proMMP-13 were detected by SDS-PAGE, pooled and quickly diluted into 5-fold excess of renaturing buffer

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(50 mM Tricine, pH 7.5, 0.4 M NaCl, 10 mM CaCl₂, 0.1 mM ZnOAc₂, 0.02% NaN₃). After 2 days of dialysis against 25 volumes of renaturing buffer (with three changes), refolded proMMP-13 was concentrated to about 4-10 mg/ml in a Millipore Biomax 5 concentrator. ProMMP-13 was activated to MMP-13CAT (catalytic domain) by an overnight incubation at 37 °C in the presence of l mM p-aminophenylmercuric acetate (APMA).

The activated protein is then applied onto a Superdex-75 16/60 gel filtration column equilibrated in 2.5 mM Tris-HCl, pH 7.5, 5 mM CaCl₂, 0.4 M NaCl, 2 mM DTT, 0.02% NaN₃ and 0.05 mM ZnOAc₂. The protein is eluted and fractions containing MMP-13CAT were identified by SDS-PAGE. Peak fractions were pooled and the protein was concentrated in a Millipore Biomax concentrator to about 5 mg/ml and stored at -70 °C. N-terminal amino acid sequencing was performed to confirm the protein's identity. The uniform ¹⁵N and ¹³C labeling of MMP-13-CAT was confirmed by MALDI-TOF mass spectrometry (PerSeptive Biosystems).

NMR Sample Preparation: The MMP-13:Compound A NMR sample contained 1mM ¹⁵N-or ¹⁵N/¹³C-labeled MMP-13 with Compound A in a 1:1 ratio. The sample was prepared by repeated buffer exchange using 20-30ml solution containing 10mM deuterated Tris-Base, 100mM NaCl, 5mM CaCl₂, 0.1mM ZnCl₂, 2mM NaN₃, 10mM deuterated DTT, and 0.2mM Compound A in either 90% H₂O/10 % D₂O or 100% D₂O. Buffer exchange was carried out on a Millipore Ultrafree-15 Centrifugal Filter Unit. Excess Compound A was removed by additional buffer exchanges where Compound A was removed from the buffer.

NMR Data Collection: All spectra were recorded at 35°C on a Bruker AMX-2 600 spectrometer using a gradient enhanced triple-resonance ¹H/¹³C/¹⁵N probe. For spectra recorded in H₂O, water suppression was achieved with the WATERGATE sequence and water-flip back pulses (Piotto, et al., J. Biomol. NMR 1992; Grzesiek and Bax, J. Am. Chem. Soc. 1993). Quadrature detection in the

 $P^{*4}P$

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indirectly detected dimensions were recorded with States-TPPI hypercomplex phase increment (Marion, et al., J. Magn. Reson. 1989). Spectra were collected with appropriate refocusing delays to allow for 0,0 or -90,180 phase correction.

The resonance assignments and bound conformation of

Compound A in the MMP-1: Compound A complex were based on the 2D

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Compound A in

The MMP-13:Compound A structure is based on the following series of spectra: HNHA (Vuister and Bax, J. Am. Chem. Soc. 1993), HNHB (Archer, et al., J. Magn. Reson. 1992), 3D long-range ¹³C-¹³C correlation (Bax and Popchapsky, J. Magn. Reson. 1992), coupled CT-HCACO (Powers, et al., J. Magn. Reson. 1991; Vuister, et al., J. Am. Chem. Soc. 1992), HACAHB-COSY (Grzesiek, et al., J. Amer. Chem. Soc. 1995), 3D ¹⁵N- (Mario, et al., Biochemistry 1989; Zuiderweg and Fesik, Biochemistry 1989) and ¹³C-edited NOESY (Zuiderweg, et al., J. Magn. Reson. 1990; Ikura, et al., J. Magn. Reson. 1990), and 3D ¹³C-edited/¹²C-filtered NOESY (Lee, et al., FEBS Lett. 1994). experiments. The ¹⁵N-edited NOESY, ¹³C-edited NOESY and 3D ¹³C-edited/¹²C-filtered NOESY experiments were collected with 100 msec, 120 msec and 110 msec mixing times, respectively. The acquisition parameters for each of the experiments used in determining the solution structure of MMP-13 complexed with Compound A were as reported previously (Moy, et al., Biochemistry, 1998).

25 Spectra were processed using the NMRPipe software package (Delaglio, et al., J. Biomol. NMR, 1995) and analyzed with PIPP (Garrett, et al., J. Magn. Reson., 1991) on a Sun Sparc Workstation. When appropriate, data processing included a solvent filter, zero-padding data to a power of two, linear predicting back one data point of indirectly acquired data to obtain zero phase corrections, linear prediction of additional points for the indirectly acquired dimensions to increase resolution. Linear prediction by the means of the mirror

image technique was used only for constant-time experiments (Zhu and Bax, <u>J</u>. <u>Magn</u>. <u>Reson</u>., 1992). In all cases data was processed with a skewed sine-bell apodization function and one zero-filling was used in all dimensions.

- 5 Interproton Distance Restraints: The NOEs assigned from 3D ¹³C-edited/¹²C-filtered NOESY and 3D ¹⁵N-edited NOESY experiments were classified into strong, medium, and weak corresponding to interproton distance restraints of 1.8-2.7 Å (1.8-2.9 Å for NOEs involving NH protons), 1.8-3.3 Å (1.8-3.5 Å for NOEs involving NH protons), and 1.8-5.0 Å, respectively (Williamson, et al., J. Mol. Biol., 1985; Clore, et al., EMBO J., 1986). Upper distance limits for
- Mol. Biol., 1985; Clore, et al., EMBO J., 1986). Upper distance limits for distances involving methyl protons and non-stereospecifically assigned methylene protons were corrected appropriately for center averaging (Wuthrich, et al., J. Mol. Biol., 1983).
- 15 Torsion Angle Restraints and Stereospecific Assignments. The β -methylene stereospecific assignments and χ_1 torsion angle restraints were obtained primarily from a qualitative estimate of the magnitude of ${}^3J_{\alpha\beta}$ coupling constants from the HACAHB-COSY experiment (Grzesiek, et al., J. Am. Chem. Soc., 1992) and ${}^3J_{N\beta}$ coupling constants from the HNHB experiment (Archer, et al., J. Magn.
- 20 Reson., 1991). Further support for the assignments was obtained from approximate distance restraints for intraresidue NOEs involving NH, C α H, and C β H protons (Powers, et al., Biochemistry, 1993).

The ϕ and ψ torsion angle restraints were obtained from ${}^3J_{NH\alpha}$ coupling constants measured from the relative intensity of H α crosspeaks to the NH diagonal in the HNHA experiment (Vuister and Bax, <u>J. Am. Chem. Soc. 1993</u>), from a qualitative estimate of the magnitude of ${}^3J_{\alpha\beta}$ coupling constants from the HACAHB-COSY experiment (Grzesiek, *et al.*, <u>J. Am. Chem. Soc.</u>, 1992) and from approximate distance restraints for intraresidue and sequential NOEs involving NH, C α H, and C β H protons by means of the conformational grid search program STEREOSEARCH (Nilges, *et al.*, <u>Biopolymers</u> 1990), as described previously (Kraulis, *et al.*, <u>Biochemistry</u> 1989). ${}^1J_{c\alpha H\alpha}$ coupling

constants obtained from a coupled 3D CT-HCACO spectrum were used to ascertain the presence of non-glycine residues with positive f backbone torsion angles (Vuister, *et al.*, <u>J. Am. Chem. Soc.</u> 1992). The presence of a ${}^{1}J_{c\alpha H\alpha}$ coupling constant greater then 130 Hz allowed for a minimum φ restraint of -2° to -178°.

The Ile and Leu $\chi 2$ torsion angle restraints and the stereospecific assignments for leucine methyl groups were determined from $^3J_{C\alpha C\delta}$ coupling constants obtained from the relative intensity of $C\alpha$ and $C\delta$ cross peaks in a 3D long-range ^{13}C - ^{13}C NMR correlation spectrum (Bax, et al., J. Am. Chem. Soc. 1992), in conjunction with the relative intensities of intraresidue NOEs (Powers, et al., Biochemistry 1993). Stereospecific assignments for valine methyl groups were determined based on the relative intensity of intraresidue NH-C γ H and $C\alpha$ H-C γ H NOEs as described by Zuiderweg et al. (1985) (Zuiderweg, et al., Biopolymers 1985). The minimum ranges employed for the φ , ψ , and χ torsion angle restraints were \pm 30°, \pm 50°, and \pm 20°, respectively (Kraulis, et al., Biochemistry 1989).

Structure Calculations: The structures were calculated using the hybrid distance geometry-dynamical simulated annealing method of Nilges et al. (1988) (Protein Eng.) with minor modifications (Clore, et al., Biochemistry 1990) using 20 the program XPLOR (Brunger, X-Plor Version 3.1 Manual, Yale University, New Haven, CT), adapted to incorporate pseudopotentials for ${}^3J_{NH\alpha}$ coupling constants (Garrett, et al., J. Magn. Reson. Ser. B 1994), secondary ¹³Cα/¹³Cβ chemical shift restraints (Kuszewski, et al., J. Magn. Reson. Ser B 1995) and a conformational database potential (Kuszewski, et al., Protein Sci. 1996; 25 Kuszewski, et al., J. Magn. Reson. 1997). The target function that is minimized during restrained minimization and simulated annealing comprises only quadratic harmonic terms for covalent geometry, ³J_{NHα} coupling constants and secondary 13 C α / 13 C β chemical shift restraints, square-well quadratic potentials for the experimental distance and torsion angle restraints, and a quartic van der 30 Waals term for non-bonded contacts. All peptide bonds were constrained to be

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planar and trans. There were no hydrogen-bonding, electrostatic, or 6-12 Lennard-Jones empirical potential energy terms in the target function.

To prevent the Zn and Ca ions from being expelled during the high-temperature simulated annealing stages of the refinement protocol, a minimal number of distance restraints between the His sidechain and Zn and between backbone atoms and Cα were included in the XPLOR distance restraint file based on the observed coordination in the X-ray structures (Lovejoy, et al., Science 1994; Lovejoy, et al., Biochemistry 1994; Spurlino, et al., Proteins: Struct., Funct., Genet. 1994; Borkakoti, et al., Nat. Struct. Biol. 1994).

The starting MMP-13:Compound A complex structure for the simulated-annealing protocol was obtained by manually docking Compound A into a homology model for MMP-13. The initial orientation of Compound A in the MMP-13 active site was based on the previously reported MMP-1:CGS-27023A structure (Moy, et al., Biochemistry 1999).

Homology modeling methods were utilized to generate a three dimensional model of MMP-13. The linear amino acid sequence corresponding to the catalytic domain of MMP-13 was aligned (SYBYL) with the catalytic domains of MMP-1, MMP-7 and MMP-8 based on the availability of their x-ray crystallographic structures (Bode, et al., EMBO J 1994; Spurlino., Proteins: Struct., Funct., Genet. 1994; Betz, et al., Eur. J. Biochem. 1997; Lovejoy, et al., Nat. Struct. Biol. 1999; Borkakoti, et al., Nat. Struct. Biol. 1994; Browner, et al., Biochemistry 1995). The alignments of MMP-13 with MMP-1 and MMP-8 demonstrated the highest homology where the computed identities are 58.9% and 61.4%, respectively (Figure 2).

The X-ray structure of MMP-8 was selected to be used as the template for homology modeling the structure of MMP-13. This decision was based mainly on the sequence alignment shown in Figure 2B where no insertions (labeled "###") are found in the critical specificity loop (Labeled Underlined and Boldface). In Figure 2A, the region labeled "##" in the specificity loop shows that there is an "insertion" of 2 additional amino acid residues compared to the sequence length of MMP-1. Based on our analysis of

the alignments, MMP-8 would allow for a more accurate modeling of the inhibitor binding pockets since no predictions have to be made within this loop region.

Tomposer (SYBYL) was used to construct the initial homology model of MMP-13. The only insertion was a serine (labeled '**' in Figure 2B) at position 32 of MMP-13. The insertion of S32 occurs within a coiled region which is at the entrance of a long alpha helix and about 17 angstroms from the S' specificity loop. The model of MMP-13 was then energy minimized utilizing a set of nested refinement procedures (Chen, et al., J. Biomol. Struct. Dyn. 1995), but where the protein backbone heavy atoms were constrained as close as possible to their original positions.

The MMP-13:Compound A model was then subjected to a 1000 steps of CHARMM minimization with the 5 intramolecular NOE restraints and the 47 distance restraints observed between MMP-13 and Compound A where the coordinates for MMP-13 were kept fixed. This approach approximated the positioning of Compound A in the active site of MMP-13 without distorting the MMP-13 structure. The final structure was exported as a PDB file and used as the starting point for XPLOR simulated annealing protocol where all the residues in the structure were free to move. Since the initial stage of the simulated annealing protocol corresponds to high-temperature dynamics (1500 K) with a relatively weak XPLOR NOE force constant (Ries and Petrides, Biol. Chem. Hoppe-Seyler 1995), the initial MMP-13: Compound A structure does not bias the structure determination process since the structure is effectively free to explore the available conformational space. Additionally, each iteration of the simulated annealing process begins with a random trajectory for the molecular dynamics. The fact that these trajectories differ by upwards of 10 Å assures a distinct exploration of conformational space for the ensemble of MMP-13:Compound A structures determined from the simulated annealing protocol.

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Results and Discussion

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Compound A Resonance Assignments and Bound Conformation: The primary structure of Compound A along with the proton naming convention is shown in Figure 3. The NMR assignments for Compound A in the MMP-13 complex followed established protocols using 2D ¹²C-filtering experiments (Petros, et al., FEBS Lett. 1992; Gemmecker, et al., J. Magn. Reson. 1992; Ikura and Bax, J. Am. Chem. Soc. 1992) since the NMR sample was composed of ¹³C/¹⁵N labeled MMP-13 and unlabeled Compound A. Thus, traditional 2D-NOESY, COSY and TOCSY spectra of Compound A in the presence of MMP-13 yielded straightforward assignments for Compound A along with assignments for free Compound A (data not shown). The only notable difference in the assignments for free and bound Compound A is the observation of two distinct resonances for 2HB1/2 in the complex (4.91 ppm; 4.67 ppm). The missing resonance in the free Compound A may simply be obscured by water. Also, an observation that the protons on the p-methoxyphenyl ring are degenerate suggests rapid ring flips when complexed to MMP-13. This was also seen with CGS-27023A complexed with both MMP-1 and stromelysin (Gonnella, et al., Bioorg. Med. Chem. 1997; Moy, et al., Biochemistry 1998; Moy, et al., Biochemistry 1999).

Compound A does not adopt a preferred conformation in the absence of MMP-13 as evident by the lack of structural NOEs. Only a minimal 20 number of intramolecular NOEs were observed for Compound A in the MMP-13 complex which were relevant to the bound conformation of Compound A (data not shown). The minimal number of structural NOEs is a result of the Compound A conformation, structure and chemical shift degeneracy. A number of the observed NOEs correspond to a sequential interaction which have no 25 effect on the overall conformation of the inhibitor and were not used in the refinement of Compound A or the complex. The structural intramolecular NOEs observed are primarily between 1HH* and the pyridine ring and between 2HB1/2 and both the p-methoxyphenyl and aryl ring. These NOEs are consistent with the "splayed" conformation previously observed for CGS-27023A 30 bound to both MMP-1 and stromelysin, but the bound conformation of

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Compound A is predominately determined from the intermolecular NOEs between Compound A and MMP-13 (Table 1).

Structure Determination: The NMR structure determination methodology is an iterative procedure where the current state of the structure is used to analyze the ambiguous NOE data. In essence, the structure is used as a distance filter to sort through the ambiguous NOE list where the first structure is determined from unambiguous data. For the refinement of MMP-13, the initial structure was a homology model based on the MMP-8 X-ray structure. This was justified by the overall similarity in previously reported MMP structures and from the secondary structure assignments by NMR for MMP-13. The regular secondary structure elements of MMP-13 were identified from a qualitative analysis of sequential and inter-strand NOEs, NH exchange rates, ³JHNα coupling constants (Clore, et al., Crit. Rev. Biochem. Mol. Biol. 1989) and the ¹³Cα and ¹³Cβ secondary chemical shifts (Spera and Bax, J. Am. Chem. Soc. 1991). The deduced secondary structure is essentially identical to the inhibitor-free MMP-1 NMR structures previously reported.

The final 30 simulated annealing structures calculated for residues 7-164 were based on 3279 experimental NMR restraints, consisting of 2561 approximate interproton distance restraints, 51 distance restraints between MMP-13 and Compound A, 88 distance restraints for 44 backbone hydrogen bonds, 391 torsion angle restraints, 103 $^3J_{NH\alpha}$ restraints 123 C α restraints and 108 C β restraints. Stereospecific assignments were obtained for 81 of the 100 residues with β -methylene protons, for the methyl groups of 5 of the 6 Val residues, and for the methyl groups of 12 of the 13 Leu residues. In addition, 12 out of the 12 Phe residues and 7 out of the 8 Tyr residues were well defined making it possible to assign NOE restraints to only one of the pair of COH and CEH protons and to assign a $\chi 2$ torsion angle restraint. Similarly, $\chi 2$ torsion angle restraints were assigned for the three Trp residues. The atomic rms distribution of the 30 simulated annealing structures about the mean coordinate positions for residues 7-164 is 0.43 ± 0.06 Å for the backbone atoms, $0.81 \pm$

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0.09 Å for all atoms, and 0.47 \pm 0.04 Å for all atoms excluding disordered surface side chains. The mean standard deviation for the φ and ψ backbone torsion angles of residues 7-164 are 6.2 \pm 11.3° and 7.1 \pm 11.8°, respectively. The high quality of the MMP-13 NMR structure is also evident by the results of PROCHECK analysis and by a calculated, large negative value for the Lennard-Jones-van der Waals energy (-695 \pm 11 kcal mol⁻¹). For the PROCHECK statistics, an overall G-factor of 0.16 \pm 0.16, a hydrogen bond energy of 0.82 \pm 0.05 and only 7.8 \pm 1.0 bad contacts per 100 residues are consistent with a good quality structure comparable to ~1Å X-ray structure.

The high quality of the MMP-13 NMR structure is also evident by the very small deviations from idealized covalent geometry, by the absence of interproton distance and torsion angle violations greater than 0.1 Å and 1°, respectively and by the fact that most of the backbone torsion angles for non-glycine residues lie within expected regions of the Ramachandran plot (not shown). 91.5% of the residues lie within the most favored region of the Ramachandran φ, ψ plot and 7.8% in the additionally allowed regions.

¹JCαHα coupling constants from the coupled CT-HCACO experiment indicated that all non-glycine residues have negative φ torsion angles.

The quality of the NMR data to properly define the complex is also supported by the well-defined coordinates for Compound A and the active site residues, where the atomic rms distribution is $0.47\pm0.08\text{\AA}$ and $0.18\pm0.03\text{\AA}$ for the heavy atoms of Compound A and MMP-13 backbone atoms, respectively.

Description of the MMP-13:Compound A Structure: The overall fold of MMP-13 is
essentially identical to previously reported MMP structures (Bode, et al., EMBO J. 1994; Gooley, et al., Nat. Struct. Biol. 1994; Lovejoy, et al., Science 1994; Lovejoy, et al., Ann. N. Y. Acad. Sci. 1994; Lovejoy, et al., Biochemistry 1994; Spurlino, et al., Proteins: Struct., Funct., Genet. 1994; Stams, et al., Nat. Struct. Biol. 1994; Becker, et al., Protein Sci. 1995; Gonnella, et al., Proc. Natl. Acad.
Sci. U. S. A. 1995; Van Doren, et al., Protein Sci. 1995; Botos, et al., Proc. Natl. Acad. Sci. USA 1996; Broutin, et al., Acta Crystallogr., Sect. D: Biol. Crystallogr.

1996; Gooley, et al., J. Biomol. NMR 1996; Betz, et al., Eur. J. Biochem. 1997; Gonnella, et al., Bioorg. Med. Chem. 1997; Moy, et al., Biochemistry 1998 and Moy, et al., Biochemistry 1999). The MMP-13 NMR structure is composed of three α -helices corresponding to residues 28-44 (α_A), 112-123 (α_B) and 153-5 163 (α_c) and a mixed parallel and anti-parallel b-sheet consisting of 5 strands corresponding to residues 83-86 (β_1) , 95-100 (β_2) , 59-66 (β_3) , 14-20 (β_4) and 49-53 (β_5). The active site of MMP-13 is bordered by β -strand IV, the Ca⁺² binding loop, helix B and a random coil region from residues P139-Y141. The catalytic zinc is chelated by H119, H123, and H129 while the structural zinc is chelated by H69, H84 and H97. The calcium ion is chelated in a loop region 10 consisting of residues D75 to G79. An interesting feature of the MMP active-site structure is an apparent kink in the backbone that occurs between the Ca⁺² binding loop and β -strand IV. In the case of MMP-13, this results in the NHs of both L82 and A83 facing toward the active site of the enzyme. An important feature of substrate and inhibitor binding to the MMPs are hydrogen bonding interactions with β -strand IV which is facilitated by this unusual kink conformation (Lovejoy, et al., Science 1994; Lovejoy, et al., Biochemistry 1994; Spurlino, et al., Proteins: Struct., Funct., Genet. 1994; and Borkakoti, et al., Nat. Struct. Biol. 1994).

The interaction of Compound A in the active site of MMP-13 was determined by 5 intramolecular NOEs for Compound A and by a total of 47 intermolecular distance restraints between MMP-13 and Compound A. The key MMP-13 residues involved in the interaction with the inhibitor correspond to three distinct MMP-13 regions: residues L81, L82 and A83 from β -strand IV; residues L115, V116, and H119 from α -helix II; and L136, I140 and Y141 from the active site loop which comprise the S1' and S2' pockets of MMP-13. A unique feature of the MMP-13 structure is the large S1' pocket which nearly reaches the surface of the protein.

Compound A binds to the right-side of the catalytic Zn where the p-methoxyphenyl of Compound A sits in the S1' pocket of the MMP-13 active site. This positioning is evident from the observed NOEs from 3HH*, 3HE1/2

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and 3HD1/2 to L115, V116, H119, L136, and Y141. The aryl group primarily interacts with the side-chain of L81 as evident by the strong NOEs between 1HH*, 1HE2 and 1HZ and the L81 spin-system. Finally, the pyridine ring is essentially solvent exposed but interacts with the side-chain of I140. These interactions position Compound A such that the hydroxamic acid moiety of Compound A chelates to the "right" of the catalytic zinc and the sulfonyl oxygens are in hydrogen-bonding distance to the backbone NH of L82.

It is interesting to note that the active site loop is highly dynamic in both the inhibitor-free and CGS-27023A structures based on S² orderparameters (Moy, et al., J. Biomol. NMR 1997). This region in the MMP13:Compound A structure appears to be significantly less mobile by the observation that most of the residues in this loop region were easily observable in the ¹H-¹⁵N HSQC spectra and readily assigned. One possible explanation for this difference is the hydrophobic interaction between the pyridine ring of
Compound A and the side-chain for Ile-140. In MMP-1, I140 is replaced by a serine which essentially eliminates this beneficial interaction.

Another unique feature of the MMP-13 NMR structure is the apparent dynamic nature of residues H69 to Y73. These residues are completely disordered due to the lack of any assignment information and the resulting absence of any constraint information presumably a result of the flexible nature of these residues. Residues H69 to Y73 occur between the Ca⁺² binding loop and the structural zinc where the corresponding region in the previously solved MMP-1 NMR structures is well defined. There is no apparent explanation for this change in mobility between the two NMR structures but it may contribute to the observed difference in the physical behavior of MMP-1 and MMP-13. Under identical conditions, inhibitor-free MMP-1 is stable for upwards of two months whereas inhibitor-free MMP-13 degrades immediately.

Comparison of the MMP-13:Compound A and MMP-1:CGS-27023A Structures:

The high-resolution NMR structure for the MMP-13:Compound A complex was effectively and efficiently determined by using a homology model based on the

 $q \in \mathcal{P}_{q}$

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MMP-1 NMR structure as an initial structure to analyze ambiguous NOESY data. This result is evident of the high structural and sequence similarity between members of the MMP family and consistent with the previously observed best-fit superposition of the backbone atoms for MMP-1, stromelysin, matrilysin and neutrophil collagenase (Moy, et al., Biochemistry 1998; Moy, et al., Biochemistry 1999).

The strong similarity between the various MMP structures creates an initial difficulty in designing specific MMP inhibitors. This is exemplified by the high sequence similarity among the MMPs in the active site. Comparison of the sequence similarity between MMP-13 and MMP-1 illustrates this difficulty. There are only a few significant residue differences between the two enzymes where these modifications results in a significant change in the local environment of the active site. The R114 to V115 modification results in a conversion from a hydrophilic to a hydrophobic environment at the base of the S1' pocket between MMP-1 and MMP-13, respectively. Similarly, the N80 to L81 substitution places a bulkier hydrophobic residue in the S2' pocket for MMP-13 compared to a more hydrophilic environment for MMP-1. Similarly in the active loop region, I140 a bulky hydrophobic residue in MMP-13 replaces the smaller hydrophilic S139 residue in MMP-1. Clearly, it is feasible to incorporate substituents into a small molecule to take advantage of these spatial distinct environmental changes between MMP-1 and MMP-13. Nevertheless, when these sequence and environmental differences are averaged across the MMP family it becomes less discriminating and extremely difficult to design an inhibitor to a specific MMP subtype based strictly on the small sequence differences.

Conversely, the most distinct structural difference between the MMPs and readily amenable to incorporating specificity in drug design is the relative size and shape of the S1' pocket. This is clearly evident by comparison of the defined S1' pockets for MMP-13 and MMP-1. The large difference in size in the S1' pockets between the MMP-13 and MMP-1 NMR structures is striking. The S1' pocket for MMP-13 nearly reaches the outer surface of the protein and

is greater then twice the size of MMP-1. The additional size of the MMP-13 S1' pocket relative to MMP-1 is best illustrated by the filling capacity of the two inhibitors. In the MMP-1:CGS-27023A NMR structure, the p-methoxyphenyl effectively fills the available S1' pocket for MMP-1. Conversely, in the MMP-13: Compound A complex the p-methoxyphenyl only partially fills the available space within the MMP-13 S1' pocket. The size of the MMP-13 pocket is actually similar in size to stromelysin where the design of stromelysin inhibitors has taken advantage of this deeper S1' pocket by using a biphenyl substituent in another series instead of the p-methoxyphenyl in Compound A to bind into the S1' pocket (Hajduk, et al., J. Am. Chem. Soc. 1997; Olejniczak, et al., J. Am. 10 Chem. Soc. 1997). Thus, the NMR structures for MMP-13 and MMP-1 suggest that a ready approach to designing specificity between these MMPs is to take advantage of the significantly different sized S1' pockets. The high mobility of the MMP-1 active site presents a potential caveat to this analysis of the static images of the MMP-1 and MMP-13 structures. It is probable that the MMP-1 active site is capable of accommodating a S1' substituent larger then implied from its current structure due to its increased mobility in both free and inhibited structures.

Examination of the binding mode of Compound A in the MMP13:Compound A complex suggests a conformation generally similar to CGS27023A in the MMP-1:CGS-27023A NMR structure previously reported (30 simulated annealing structures deposited with Protein Data Bank, Accession No.
4AYK; restrained minimized mean structure deposited with Protein Data Bank, Accession No. 3AYK). Compound A and CGS-27023A are structurally very similar with the only difference being the nature of the substituent binding in the S2' pocket where an aryl group in Compound A replaces the isopropyl group in CGS-27023A. The strong resemblance between the binding mode of Compound A and CGS-27023A is apparent from the nearly identical intermolecular NOE patterns observed between the inhibitors and the proteins.

The key MMP-13 residues involved in the interaction with Compound A correspond to L81, L82 and A83 from β-strand IV; residues L115, V116, and

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H119 from α -helix II; and L136, I140 and Y141 from the active site loop. Similarly, the MMP-1 residues involved in the interaction with CGS-27023A correspond to residues N80, L81, A82 and H83 from β-strand IV; residues R114, V115, H118 and E119 from α-helix II; and L135, P138, Y137, S139 and Y140 from the dynamic flexible loop.

As stated previously, there are three distinct residue changes between MMP-13 and MMP-1 in the active site. The R114 to L115 change between MMP-1 and MMP-13, respectively, has a significant impact on the environment at the base of the S1' pocket but since Compound A only partially fills the MMP-13 S1' pocket this change should not effect the binding conformation of Compound A relative to CGS-27023A. Conversely, the N80 to L81 substitution directly interacts with the inhibitors in the S2' pocket and may result in an effective change in the binding mode of the inhibitors. To complicate the analysis, the only change in the inhibitors are the substituents that bind the S2' pocket. For the MMP-1:CGS-27023A complex, the isopropyl group interacts with both the sidechains of N80 and H83 where the aryl group from Compound A only interacts with L81 in MMP-13. Additionally, CGS-27023A is in hydrogen-bonding distance to both L81 and A82, whereas Compound A appears to form a bifurcated hydrogen bond with L82. This analysis suggests that CGS-27023A binds closer to β -strand IV since the S2' 20 pocket is more accessible in MMP-1 due to the absence of the bulky L81 sidechain and the presence of the aryl group in Compound A. A direct comparison of the bound conformations suggest only a subtle difference in the relative orientation of the inhibitors. The S139 to I140 difference between MMP-1 and MMP-13, respectively, appears to be related to a mobility change as opposed to 25 a structural change. In the MMP-1:CGS-27023A structure the pyridine ring position is essentially undefined and solvent exposed this compares to the MMP-13:Compound A structure where the pyridine ring binds with the side-chain of I140. Clearly, Ile is a bulkier more hydrophobic group relative to Ser which would provide a beneficial hydrophobic interactions with the pyridine ring. The 30 more interesting observation is the apparent decrease in mobility for the active

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loop in the MMP-13 structure which may be related the pyridine ring I140 interaction. This appears to be consistent with previously inhibited MMP X-ray structures (Spurlino, et al., Proteins: Struct., Funct., Genet. 1994) where the inhibitor may extend the formation of a β -sheet between b-strand IV and the active loop region which results in low B-factors in the X-ray structure. This may suggest that the mobility of the active loop region is easily removed with any positive interaction with the inhibitor.

There are apparently some interesting differences between the mode of binding for the two inhibitors in the MMP-13:Compound A and MMP-1:CGS-27023A NMR structures. The more striking observation is the overall 10 similarity between the two structures. Despite some significant sequence differences and a large difference in the size and shape of the S1' pocket either inhibitor structure would accurately predict the other structure. This observation seems to indicate that the major contributing factors to inhibitors binding the MMPs is the fit in the S1' pocket and the binding of the hydroxamic 15 acid to the catalytic zinc. The interaction in the S2' pocket appears to have a more subtle impact on inhibitor binding and selectivity since both Compound A and CGS-27023A are low nanomolar inhibitors of MMP-13 and MMP-1, respectively. Therefore, the high-resolution solution structure of the MMP-13:Compound A in conjunction with the previously reported MMP-1 NMR 20 structures suggest that taking advantage of the significant differences in the size and shape of the S1' pocket is a reasonable approach for developing specific MMP inhibitors.

The studies described herein present the high-resolution solution structure of MMP-13 complexed with a sulfonamide derivative of a hydroxamic acid compound (Compound A). The overall fold of MMP-13 is similar to previously reported MMPs structures. The major difference is the large S1' pocket which nearly reaches the surface of the protein. The structure was based on a total of 3279 constraints including 47 distance restraints between MMP-13 and Compound A from X-filtered NOESY experiments. The inhibitor was found to bind to the "right" side of the catalytic Zn such that the p-methoxyphenyl ring

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sits in the S1' pocket, the aryl moiety interacts with L81 of β IV, the pyridine ring interacts with I140 of the active site loop, hydrogen bond interactions exist between the sulfonamide oxygens with residue L82 and the hydroxamic acid chelates the catalytic Zn. This inhibitor binds MMP-13 similarly to the MMP-1:

5 CGS-27023A complex suggesting that appropriately filling the S1' pocket may play a key role in developing selective MMP inhibitors.

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Table 1. Observed NOEs Between Compound A and MMP-13

Compound A	MMP-13	NOE Class	Compound A	MME-1	NOE Class
1HH*	L81 Hy	W	3HH*	Υ141 Ηα	. M
1HH*	L81 Hδ1#	w	3HH*	Ү141 НВ1	w
1 HH *	, L81 Hδ2#	М	3HH*	Υ141 Ηβ2	W
1HH*	L81 Hα	S .	3HH* ·	Υ141 Ηδ2	W
1HE2	L81 Hδ1#	w	3HE2	L82 Hδ1#	W
1HE2	L81 Hδ2#	M	3HE1	Α83 Ηβ#	w
1HZ	L81 H81#	W	3HE1	Н116 На	W
1HZ	L81 H82#	М	3HE1	Η116 Ηγ1#	M .
2HZ	Ι140 Ηγ2#	W	3HE2	H1 16 Hγ2#	W
2HE1	Ι140 Ηδ1#	W	3HE2	Ι140 Ηγ2#	W
3HH*	L82 Hδ1#	W	3HE2	Υ141 Ηα	W
3HH*	L115 Hβ#	\mathbf{W}	3HE2	Υ141 Ηβ1	W
3HH*	L115 Hy	W	3HE2	Υ141 Ηβ2	W
3HH*	L115 Hδ1#	W	3HD2	L82 Hδ1#	W
3HH*	L115 Hδ2#	w	3HD1	А83 Нβ#	W
3HH*	V116 Ha	W .	3HD1	V116 Hy1#	W
3HH*	V116 Hy1#	W	3HD2	V116 Hγ2#	W
3HH*	V116 Hγ2#	M	3HD2	I140 Hα	W
3HH*	Η119 Ηα	W .	3HD2	I140 Ηγ2#	W
3HH*	Н119 Нδ2	W .	3HD2	Yi41 Ha	W
3HH*	H119 Н β1	W	3HD2	Υ141 Ηβ1	W
3HH*	Н119 Нβ2	W .	3HD2	Υ141 Ηβ2	W
3HH*	L136 H81#	W	3HD2	Y141 HN	W
3HH*	L136 Hδ2#	W	· .		·

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Example 3

Structure Based Design of a Novel, Potent, and Selective Inhibitor for MMP-13

The matrix metalloproteinases (MMPs) comprise a family of zinc

5 containing enzymes that cleave a broad range of substrates including collagens, fibronectin and gelatins where the substrate preference various for individual MMPs. The design of MMP inhibitors has been initially based upon imitation of the binding interaction of natural protein substrates to MMPs where structural information of MMPs complexed with peptide substrates has been determined by x-ray crystallography and NMR spectroscopy. This structural information has provided a general description of the MMPs active site.

The active site for the MMPs is composed of a catalytic zinc chelated by three histidines where three substrate binding pockets are located to both the right (S1', S2', S3') and left (S1, S2, S3) of the catalytic zinc. The substrate binding pockets were identified by the interactions of side chains from the peptide substrate with the MMPs. The primary effort in MMP inhibitor design has focused on compounds that chelate the catalytic zinc while primarily binding in the S1' and S2' pockets. This has evolved from the observation that the structural characteristics of the S1' pocket (size, shape, amino acid composition) incurs the greatest variability between the individual MMPs and this provides an obvious approach in designing selective and specific MMP inhibitors. Nevertheless, there has also been success in utilizing the binding pockets to the left of the catalytic zinc in addition to or in combination with the right handed binding pockets in the design of inhibitors.

The underlying challenge in designing MMP inhibitors is the reasonably high sequence and structural homology observed between the individual members of the MMP family making it intrinsically difficult to design an inhibitor that will function against a single MMP in the absence of structural information. The problem with a non-specific MMP inhibitor as a drug is the high likelihood of serious side-effects because of the large number of enzymes in the MMP family and their corresponding diversity in targets and function.

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Accordingly, the detailed structural information provided herein is a critical component of an inhibitor design program targeting a particular MMP enzyme.

Materials and Methods:

Synthesis of Compound D and Compound E: The sulfonamide derived from 2-amino-3,5-dimethyl-benzoic acid methyl ester and p-methoxybenzenesulfonyl chloride was N-alkylated with benzyl bromide and the ester group of the resulting intermediate was hydrolyzed (LiOH/THF) to afford the carboxylic acid. The corresponding hydroxamic acid was formed by preparation of the acid chloride (oxalyl chloride/DMF) followed by reaction with hydroxylamine. Compound E was synthesized by reaction of 2-amino-3,5-dimethyl-benzoic acid methyl ester and p-fluorobenzenesulfonyl chloride followed by N-alkylation with benzyl bromide. Hydrolysis of the methyl ester (LiOH/THF) followed by displacement of fluorine with the alkoxide of benzofuran-2-carboxylic acid (2-hydroxy-ethyl)-amide gave, after conversion to the hydroxamic acid and formation of the HCl salt as described above, Compound E.

NMR Sample Preparation: Uniformly (>95%) ¹⁵N- and ¹⁵N/¹³C-labeled human recombinant MMP-13 was expressed in *E. coli* and purified as described previously. 1mM ¹³C/¹⁵N- and ¹⁵N- MMP-13 NMR samples were prepared by concentration and buffer exchange using Millipore Ultrafree -10 centrifugal filters into a buffer containing 10mM deuterated Tris-base, 100mM NaCl, 5mM CaCl₂, 0.1 mM ZnCl₂, 2 mM NaN₃, 10mM deuterated DTT in 90% H₂O/10% D₂O or 100% D2O. The 10:1 Compound B:MMP-13 samples were prepared by addition of Compound B into either a 1mM ¹³C/¹⁵N- or ¹⁵N-MMP-13 sample followed by pH readjustment. The sample to explore the potential of competitive inhibition between Compound B and Compound A was prepared by first adding 1mM of Compound A to a 1 mM ¹⁵N- MMP-13 sample followed by the addition of 10mM Compound B. The initial MMP-13:Compound A sample was made by buffer exchange of ¹⁵N- MMP-13 into the buffer containing 0.1 mM Compound A followed by additional buffer exchanges to remove excess

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Compound A. Finally, 10mM of Compound B was added to the 1mM ¹⁵N- MMP-13:Compound A sample followed by pH readjustment.

NMR Data Collection: All spectra were recorded at 35°C on a Bruker AMX-2 600
spectrometer using a gradient enhanced triple-resonance ¹H/¹³C/¹⁵N probe. For spectra recorded in H₂O, water suppression was achieved with the WATERGATE sequence and water-flip back pulses (Piotto, et al., J. Biomol. NMR 1992;
Grzesiek and Bax, J. Am. Chem. Soc. 1993). Quadrature detection in the indirectly detected dimensions were recorded with States-TPPI hypercomplex
phase increment (Marion, et al., J. Magn. Reson. 1989). Spectra were collected with appropriate refocusing delays to allow for 0,0 or -90,180 phase correction.

The resonance assignments and bound conformation of Compound A in the MMP-1: Compound A complex were based on the 2D ¹²C/¹²C-filtered NOESY (Petros, *et al.*, <u>FEBS Lett.</u> 1992; Gemmecker, *et al.*, <u>J. Magn. Reson.</u> 1992), 2D ¹²C/¹²C-filtered TOCSY (Petros, *et al.*, <u>FEBS Lett.</u> 1992; Gemmecker, *et al.*, <u>J. Magn. Reson.</u> 1992) and ¹²C/¹²C-filtered COSY experiments (Ikura and Bax, <u>J. Am. Chem. Soc.</u> 1992).

The assignments of the ¹H, ¹⁵N, and ¹³C resonances of MMP-13 in the MMP-13:Compound B complex were based on the previous assignments for the MMP-13:Compound A complex in combination with a minimal set of experiments: 2D ¹H-¹⁵N HSQC, 3D ¹⁵N- edited NOESY (Marion, *et al.* Biochemistry 1989; Zuiderweg and Fesik, Biochemistry 1989), CBCA(CO)NH (Grzesiek and Bax, J. Am. Chem. Soc. 1992), C(CO)NH (Grzesiek, *et al.*, J. Magn. Reson., Ser. B 1993), HNHA (Vuister and Bax, J. Am. Chem. Soc. 1993) and HNCA (Kay, *et al.*, J. Magn. Reson. 1990). The acquisition parameters for each of the experiments used in determining the solution structure of the MMP-13:Compound B complex were as reported previously (Moy, *et al.*, Biochemistry 1996).

The MMP-13:Compound B structure is based on observed NOEs from the 3D ¹⁵N-edited NOESY (Marion, et al. <u>Biochemistry</u> 1989; Zuiderweg and Fesik, <u>Biochemistry</u> 1989) and 3D ¹³C-edited/¹²C-filtered NOESY (Vuister

and Bax, J. Am. Chem. Soc. 1993; Lee, et al., <u>FEBS Lett.</u> 1994). The 3D ¹⁵N-edited NOESY and 3D ¹³C-edited/¹²C-filtered NOESY experiments were collected with 100 msec and 110 msec mixing times, respectively.

Molecular Analysis and Design: The minimized models of Compound B and 5 Compound D complexed to MMP-13 were prepared as previously described (Chen, et al., J. Biomol. Struct. Dyn. 1995; Chen, et al., Biochemistry (in press) 1998). Using molecular dynamics methods (Sybyl v6.4 from Tripos Inc), protein regions within 5 Å from Compound B were sampled along with the inhibitor, whereas everything else remained rigid during the simulations. Upon energy 10 convergence, the last 50 frames from the final 100 picoseconds run was averaged and this averaged structure underwent a final minimization. The final protein-Compound B model appeared to have optimized possible polar and van der waals interactions. The identical procedure was applied to the complex of MMP-13 and Compound D. Since the two complexes used identical MMP-13 15 structures, the proteins were overlapped to depict the positions of the two inhibitors within the active site. Graphics analysis of the inhibitors showed that the methylene carbon of Compound B containing the 2HB1/2 protons (Figure 6) overlapped identically with the methoxy carbon from Compound D. This analysis indicated the optimal or minimal linkage length of connecting the 20 benzofuran moiety to the methoxy region of Compound D. The final design scheme is shown in Figure 8A for the hybrid inhibitor. The homology model of MMP-9 was constructed using the COMPOSER program (Tripos INC, Sybyl v.6.4)

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High-throughput Screening Analysis: Compound B was identified as an initial lead from the analysis of the MMP-13 high-throughput screen (HTS). A total of 58079 compounds were screened for their ability to inhibit MMP-13 enzymatic activity where 385 compounds were shown to have \geq 40% inhibition at 10 μ g/ml dosage. Compound B was shown to exhibit weak inhibition of MMP-13 (89% at the 10 μ g/ml), but more intriguing was the observation of a complete

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lack of activity against other MMPs (MMP-1, MMP-9 and TACE). The primary structure of Compound B along with the proton naming convention is shown in Figure 6.

The resulting HTS hits were further examined by cluster analysis.

The hits were clustered based on structural similarities where the properties of these compounds were compared against the properties of the set of orally available drugs. The properties used to profile the HTS hits consists of: total number of non-hydrogen atoms, number of heteroatoms, number of hydrogen-bond donors and acceptors, calculated logP and molecular weight. This profile analysis provides an initial means to predict the likelihood that an HTS hit may have drug-like characteristics such as bioavailability and in-vivo stability. The profile of Compound B indicates that the compound has properties similar to orally available drugs suggesting that it would be an ideal candidate for optimization of its enzyme potency and selectivity.

A common feature of known MMP inhibitor structures is the presence of a Zn-chelator that plays a fundamental role in its activity. In most cases Zn chelation occurs from the presence of a hydroxamic acid in the structure of the small molecule. As apparent from the structure of Compound B, the compound does not contain an obvious substituent that would chelate Zn. Thus, the unique structure of Compound B suggested a potential novel mechanism for inhibition of MMP-13 further strengthening the choice of Compound B as an initial lead candidate. Therefore, the identification of Compound B as a candidate to optimize its activity and selectivity was based on three unique observations: its intrinsic MMP-13 selectivity, its structural profile similar to known bioavailable drugs and finally its apparent novel structure.

NMR Structure of the MMP-13 - Compound B Complex: The NMR binding studies provided critical information pertaining to the mechanism of Compound B inhibition of MMP-13 and the method for designing increase potency. The major question presented when Compound B was identified from HTS was its unknown MMP-13 binding site and its method for inducing MMP-13 inhibition.

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Previous work on the NMR structure of MMP-13 complexed with Compound A and MMP-1 complexed with CGS-27023A provided the framework and methodology to analysis Compound B bound to MMP-13 (Moy, et al., Biochemistry Submitted 1999; Moy, et al., Biochemistry 1999).

The Compound B MMP-13 binding site was initially identified from chemical shift perturbation in the $^1\mathrm{H}\text{-}^{15}\mathrm{N}$ HSQC spectra. The observed perturbations were mapped onto a GRASP surface (not shown). It is apparent that the major effect of Compound B on the chemical shifts of MMP-13 occurs in the proximity of the S1' pocket suggesting that Compound B sits in this pocket. From the NMR and X-ray structures of MMP-13, it was determined that the S1' pocket for MMP-13 is very deep and linear in shape while nearly reaching the surface of the protein. In fact, a number of residues at the surface of MMP-13 near the base of the S1' pocket show significant chemical shift perturbation in the presence of Compound B. Since Compound B is a linear molecule, docking studies would place the inhibitor stretched throughout the linear S1' pocket of MMP-13. The only question remaining was whether to place the morpholine or the benzofuran moiety of Compound B at one end of the pocket, adjacent to the catalytic zinc or the opposite end, distant from the zinc atom. Property analysis of the enzymes S1' pocket depicts that the end adjacent to the zinc is relatively polar whereas the opposite end is hydrophobic. This analysis lead us to dock Compound B with the morpholine ring adjacent to the catalytic zinc atom with the benzofuran moiety siting in a hydrophobic pocket formed by L115, L136, F149 and P152 at the base of the S1' pocket. To further verify the proposed binding of Compound B in the S1' pocket of MMP-13, a simple competition experiment with Compound A was conducted. The ${}^{1}\text{H}-{}^{15}\text{N}$ HSQC experiment for the MMP-13:Compound B complex was collected in the presence of Compound A. The presence of Compound A displaced all of Compound B as evident by the distinct differences in the 1H-15N HSQC spectra which further suggests that both compounds bind in the S1' pocket.

The relative orientation and binding of Compound B with MMP-13 was further confirmed by the observation of intermolecular NOEs between

 q_{1}, r_{1}

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Compound B and MMP-13 from the 3D ¹³C-edited/¹²C-filtered NOESY experiment. The NOESY spectra was collected in the presence of a ten-fold excess of Compound B because of the weak affinity of Compound B with MMP-13. Nevertheless, a total of 16 NOEs were observed between Compound B and L81, L115, V116, Y141, T142 and Y143 which support the initial positioning of Compound B in the MMP-13 S1' pocket. An expanded 2D plane from the 3D ¹³C-edited/¹²C-filtered NOESY experiment (not shown) demonstrated examples of some key intermolecular NOEs between Compound B benzofuran group resonances and L115 δ and Compound B resonances proximal to the morpholine ring and L82 δ . The complex of Compound B with MMP-13 was 10 subjected to energy refinement using the NMR results as constraints (Moy, et al., Biochemistry 1999; Chen, et al., J. Biomol. Struct. Dyn. 1995). The modeling results depict the morpholine oxygen forming a hydrogen bond with the backbone amide group of Leu-82 and the benzofuran group packs deep in the S1' pocket with the peptide bond linker portion forming hydrogen bonds with protein backbone groups. The complex shows no apparent interactions between the inhibitor and the catalytic zinc justifying the ligands micromolar potency.

20 Structures of MMP-1, MMP-9 and MMP-13: The recent NMR solution structures of MMP-1 and MMP-13 were used as starting points for molecular modeling and analysis (Moy, et al., Biochemistry Submitted 1999; Moy, et al., Biochemistry 1998; Moy, et al., Biochemistry 1999). A homology model for MMP-9 was developed based on its strong homology to MMP-1 (54% identity around the catalytic domain). Based on the homology model, the catalytic site of MMP-9 is similar to the corresponding sites in MMP-1 and MMP-13. All three structures were used as starting points for analysis and synthetic design.

Comparative analysis of the MMP structures shows that residue positions 115 and 144, in addition to the length of the specificity loop, determines the size and shape of the S1' pockets. Alignment of the NMR structures for MMP-1 and MMP-13 shows that MMP-13 contains two additional

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insertions in the specificity loop. The homology model of MMP-9 indicates no additional insertions so its length is identical to MMP-1.

Residue positions 115 and 144 are important in establishing the relative length of the S1' pockets for the MMPs where the larger the side chain at these positions results in a smaller S1' pocket. Since residue 115 is spatially closer to the catalytic zinc than residue 144, a larger side chain for residue 115 will have a greater impact on defining a smaller S1' pocket compared to residue 144. MMP-1 has the largest side chain at position 115, thus its S1' pocket is the smallest. MMP-9 has an Arg at position 144 resulting in its S1' pocket being longer compared to MMP-1. Conversely, MMP-13 has short side chains at both positions 115 and 144. The short side chains combined with an increased length of its specificity loop result in MMP-13 having the largest S1' pocket. To summarize, the size of the MMP S1' pockets are as follows: MMP-13 > MMP-9 > MMP-1 where this structural feature plays a critical role in the design strategy for developing a potent and specific MMP-13 inhibitor.

Design Strategy: A strategy utilizing NMR and molecular modeling was applied towards the design and synthesis of an MMP-13 selective inhibitor lead. The basic approach behind the design strategy is to optimize the affinity of the chemical lead Compound B while maintaining its inherent MMP-13 selectivity. This can be achieved by taking advantage of the distinct structural feature of MMP-13, its deep linear S1' pocket, while combining overlapping structural features of Compound B with other potent inhibitors. Compound C is an example of a potent and selective inhibitor for MMP-9 and MMP-13 (See Table 2). Based on the NMR solution structure of MMP-13 complexed with Compound A (Figure 4), structurally similar inhibitors were positioned into the active site of MMP-13.

Figure 7 shows the critical regions of Compound C, which can be broken down into two components, Compound D which represents the zinc chelating portion of the compound that contributes to the binding potency and the toluene group (1A) which contributes to enhanced ligand selectivity against

MMP-1. The strategy was to design a new inhibitor based on replacing the toluene group (1A) with a component of Compound B critical for binding within the extended S1' pocket of MMP-13. The overlay of the NMR solution structure for Compound B with the model for Compound D is shown in Figure 8B. The close similarity between the positioning of the two structures made it readily apparent that it would be possible to generate a hybrid of the two structures combining the potent Compound D with the selective component of Compound B (Figure 8A). These results were then used to design the proposed hybrid inhibitor Compound E. The assay data in Table 2 clearly shows that the new inhibitor, Compound E, has better potency compared to Compound C in addition to improved selectivity towards MMP-13. Thus, the combination of NMR spectroscopy with molecular modeling techniques resulted in the design of a novel, potent and selective MMP-13 inhibitor (Compound E) which has an IC50 of 17 nM for MMP-13 and showed >5800, 56 and >500 fold selectivity against MMP-1, MMP-9 and TACE, respectively. To the best of our knowledge, this represents the first example of a potent MMP-13 inhibitor that has been shown to be selective against MMP-9.

Table 2 - IC50 and Selectivity Data

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Compoun d	MMP-1	MMP-9	MMP-13	TACE	S-1ª	S-9ª	S-TACE ^a			
C	750nM	46nM	75nM	470nM	10.0x	0.6x	6.3x			
D	82nM	21nM	15nM	240nM	5.5x	1.4x	16x			
E	NA	945nM	17nM	19%	>5800x	56x	>500x			
F	1025n M	71nM	301nM	664nM	3.4x	0.2x	2.2x			
a Selectivity	^a Selectivity data presented as a ratio of the MMP or TACE IC50 with MMP-13									

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Example 4

The X-ray crystal structure of the MMP-13:Compound A complex was determined using the following procedure:

5 Gene/expression system/production: The cDNA coding for human MMP-13 proenzyme had 85 residues of the PRO domain, followed by 165 residues of the catalytic domain (CAT). The gene was carried on a pET-21a expression plasmid, under the control of a bacteriophage T7 promoter. The expression host was Escherichia coli BL21(DE3), which had a chromosomal copy of T7 RNA polymerase under lac control. Cells were grown in nutrient broth, and synthesis of PRO-CAT was induced by isopropyl-β-thiogalactoside. The protein accumulated to 5-10% of total cellular protein, essentially all of which was aggregated into inclusion bodies.

For potential MAD experiments, the plasmid was transferred into a methionine auxotroph host. PRO-CAT with selenomethionine substitution was produced by induction in a defined medium, with methionine replaced by selenomethionine.

Purification and refolding of PRO-CAT: Frozen cells were disrupted mechanically, and inclusion bodies were isolated by centrifugation. PRO-CAT was solubilized with urea containing dithiothreitol to disrupt any disulfide bridges. PRO-CAT was partially purified by anion-exchange chromatography, in urea, on Q Sepharose. The protein was diluted to about 400 μg/ml in a solution of sodium chloride, calcium chloride, and zinc acetate, buffered with tricine-HCI. Refolding proceeded over 3-4 days, during dialysis, with multiple buffer changes. PRO-CAT was then concentrated for activation and release of CAT.

Activation of PRO-CAT: The presently-accepted view of MMPs holds that the proenzyme form is maintained in an inactive state through the coordination of one cysteine from the PRO domain into the active-site zinc. If this cysteine is

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displaced, the enzyme becomes active. In our protocol, aminophenyl mercuric acetate was added to the protein solution to form a mercurial adduct with the cysteine. Progress of activation was monitored by SDS polyacrylamide gel eletrophoresis. Results indicated that the CAT domain accumulated and the PRO domain was degraded to small peptides.

Purification of MMP-13 (CAT) – Size Exclusion: Following activation and PRO cleavage, MMP-13 was isolated by size-exclusion chromatography through SuperDex 75 in a solution of sodium chloride, calcium chloride, and zinc acetate, buffered with tris-HC1.

Purification of MMP-13 – Affinity: MMP-13 was further purified by affinity chromatography on an immobilized hydroxamate inhibitor. The affinity matrix was prepared by coupling an hydroxamate inhibitor to Sepharose through the amino group of the piperazine ring. MMP-13 can be absorbed to the matrix and desorbed by displacement using another inhibitor of choice.

Characterization of MMP-13: Protein preparations for crystallization trials were validated by several techniques. Routinely, SDS-PAGE showed a predominant species whose migration was consistent with a molecular weight of around 19,000. MALDITOF mass spectroscopy demonstrates a single species consistent with the expected size of 18,588 amu. (MMP-13 prepared with selenomethionine showed essentially complete replacement). N-terminal sequencing demonstrated that the protein begins with YNVF, as expected for correct cleavage between PRO and CAT. Retention volume in analytical size-exclusion chromatography was consistent with a monomeric protein: no detectable aggregation was observed. The final protein was enzymatically active on a fluorogenic peptide substrate, and degraded denatured collagen.

30 Crystallization of MMP-13 complex with Compound A: The MMP-13 protein solution was buffered with 10 mM tris-HCL buffer, pH 7.5, and 0.25 M NaCl.

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The concentration of protein used for crystallization was 20.0 mg/ml. The inhibitor solution was added to a protein solution with a mole ratio (protein:inhibitor) of 1:2, and was mixed for more than 1 hour.

Crystallization conditions were screened by the hanging-drop 5 vapor diffusion method (Mcpherson, A., Methods Biochem. Anal. 1976). A successful procedure for growing crystals of this complex at room temperature was identified, and crystals were obtained. Specifically, a solution was prepared from 3 µl of protein solution and 3 µl of precipitant solution, which consisted of 26% PEG4000, 0.1 M ammonium sulfate, and 0.1 M sodium chloride. A drop of this solution was suspended on a microscope coverslip glass which had been 10 coated with silicone to prevent drop spreading. The reservoir solutions consisted of 0.6 ml precipitant solution. Equilibration was performed at room temperature by vapor diffusion. Crystals began appearing after three days. After two weeks, these crystals stopped growing. The X-ray data which have been processed show that the MMP-13 complex was crystallized in two forms. One crystal form is C-centered orthorhombic; it belonged to space group C2221, and had a cell dimension of a=36.3 Å, b=134.4 Å, and c=134.8 Å. This crystal had high mosaicity; therefore, it would be of little use when working on the structure of the complex. The second crystal form is primitive orthorhombic, from space group P21212, with a cell constant of a=108.3 Å, b=79.8 Å, and 20 c=36.1 Å. This crystal had low mosaicity, but it was very small in most cases.

In order to obtain a big single crystal for X-ray data collections, the seeding technique (Thaller, C., et al., J. Mol. Biol. 1981) was applied. This was accomplished by using both the microseeding and the macroseeding methods. Small seed crystals were transferred to a 20% PEG4000 precipitant solution on a depression slide. A single washed crystal was injected into a hanging-drop solution, which was composed of 3 μ l of MMP-13 complex solution and 3 μ l of precipitant solution. The reservoir solutions consisted of 0.6 ml precipitant solution at pH 8.0. This procedure successfully produced bigger crystals with a maximum edge dimension of up to 0.35 x 0.1 x 0.1 mm³. These crystals diffracted X-ray at a resolution of 2.0 Å.

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X-Ray Data Collection: X-ray diffraction data from 30.0-2.0 Å resolution for the MMP-13:Compound A complex crystal (P21212 form) was collected by using an RAXIS IIc Image Plate area detector which used graphite monochromatic CuKα radiation from a Rigaku RU200 rotating anode generator (operating at 50 kV, 100 mA) at a low temperature of 100 K. The oscillation angle for each plate was 1 degree, and exposure time was 20 minutes per 'image'. The processing of X-ray diffraction data was accomplished using the HKL programs (Otwinowski, Z. and Minor, W., Methods in Enzymology 276:307-26). The R-merges for full and partial reflections were 4.0% and 6.04% respectively. 18,782 unique
reflections (81% complete at 2.0 Å resolutions) were collected.

Structure Determination and Refinement: The MMP-13 complex crystal structure has been determined by a combination of crystallographic modeling and the Molecular Replacement method using models of MMP-13 derived from the MMP-1 and MMP-8 structures. The homology between MMP-13 and MMP-8 is 56% by sequence, and at least 70% by structure. Crystals of the MMP-13 complex have two molecules in the asymmetric unit, *i.e.*, the unit is a dimer. Conventional molecular replacement was not effective for determination of this dimer structure by using a monomer model. There are two reasons for this: (1) the high symmetry of the crystal structure; and (2) the conformations and the configurations of the side chain and the main chain in flexible loops of MMP-13 and MMP-8.

Firstly, the crystal structure of the MMP-13 complex is highly symmetrical. The P21212 crystal has four symmetry operations, and there are eight molecules in a unit cell. A second crystal form, belonging to space group C222, and having eight symmetry operations in a unit cell, has been identified. In this crystal, there are 16 monomers per cell in the dimer structure, and 32 monomers per cell in the tetramer structure. Therefore, the rotation search and especial translation search become more difficult. Secondly, even though the MMP family's catalytic domain structure is highly conserved, the conformations and the configurations of the side chain and the main chain in flexible loops of

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MMP-13 and MMP-8 may not be the same. In particular, the similarity between the two structures may not be sufficient to permit the determination of the dimer structure using a monomer as the searching model.

Many attempts at a rotation and translation search were made by using the X-ray data and models of either a monomer of MMP-8 or a dimer of MMP-1. Some rotation solutions were obtained, but no final translation solution has been found by using the monomer model. Accordingly, to determine this structure, it was proposed that a dimer model be constructed first; the molecular replacement method was then applied to solve the structure.

The key idea of this proposal was crystal packing. To construct a dimer, the orientations of each monomer were determined on the basis of a rotation search. The positions of each monomer were located on the basis of the molecular packing in unit cell. Many dimer models have been constructed and applied as the 'model' for searching the rotation and translation using program AMORE (Collaborative Computational Project, Number 4 (CCP4) (1994), Acta Cryst. D50:760-763). One dimer model was found to be correct, and finally resulted in the MMP-13 3-D crystal structure using the molecular replacement method. The MMP-13 complex structure was confirmed by observing the most important and significant fact that the positions of the two zinc ions and the two calcium ions could be identified from the difference (Fo-Fc) maps with five-sigma cut, where Fo was observed structure factor and Fc was the calculated structure factor of the dimer model without zinc and calcium atoms.

These ions were located in the exact positions where they were

observed in other MMP family members. The molecule fits the (2Fo-Fc)
electron densities very well, both in main chain and in side chain. The molecule
fits the 2Fo-Fc electron density quite well. All of these MMP molecules are
conserved in the core structure region, especially the position of the central
helix and the catalytic zinc. The MMP-13 dimer structure was further confirmed
by applying the molecular replacement programs XPLOR (Brünger, A.T., XPLOR
Version 3.1 Manual, Yale University, New Haven CT) and MERLOT (Fitzgerald,

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P., MERLOT, version 2.4 (Nov. 10, 1991). All of them worked very well, and produced results which were in agreement with the MMP-13 structure.

Structure Refinement: The structure refinement was carried out by the program XPLOR. The initial dimer model included 320 amino acid residues without zinc and calcium ions. The dimer model was refined against 2.0 Å X-ray data, " collected on an RAXIS IIc area detector at a temperature of 100 K. The progress of the refinement was evaluated from the quality of the protein molecular conformations and the electron density maps, and the values of the crystallographic R-factor. The initial R-factor was 52%. After rigid-body minimization, conjugated-gradient minimization, a heating stage, a slow-cooling stage in the range from 4000K to 300K, energy minimization, B-factor refinement, and positional refinement, the R-factor lowered to 0.32. Electrondensity maps with coefficients of (2Fo-Fc) and (Fo-Fc), as well as the phases, were calculated. The difference map shows four zinc ions and four calcium ions in the dimer structure with five-sigma cut. Some side chain loops and a few main loops were rebuilt on the interactive graphics system. The rebuilt dimer plus the zinc and calcium ions, as the new model, was refined. The R-factor was down to 26.6%. At this stage, a model of inhibitor Compound A was positioned in the active-site region based on the difference electron density. 20

The complex structure was refined by repeating the above steps, with the R-factor down to 20%. The water molecules were modeled as oxygen atoms. Their initial positions were located by searching the peaks in the (Fo-Fc) difference maps. These positions were then checked by calculating the distance between 'water' and the oxygen and nitrogen of the protein. Together with the protein (complex) atoms, these 'water' molecules were refined against the X-ray data. Once the temperature factor of water was higher than 50, this water was omitted. 120 water molecules near the protein were found, and five water molecules were identified in the active site of each monomer. The (2Fo-Fc) maps were used to adjust the solvent model and to aid in the placement of new solvent molecules, as well as to check and correct the whole model. The r.m.s.

deviations of $C\alpha$ atoms for bond angles and bond distances from ideal geometry were 1.6° and 0.012 Å. The final crystallographic R-factor was 22%, at a resolution of 2.0 Å.

All publications mentioned herein above, whether to issued

5 patents, pending applications, published articles, protein structure deposits, or
otherwise, are hereby incorporated by reference in their entirety. While the
foregoing invention has been described in some detail for purposes of clarity
and understanding, it will be appreciated by one skilled in the art from a
reading of the disclosure that various changes in form and detail can be made

10 without departing from the true scope of the invention in the appended claims.

What is claimed is:

- 1. A solution comprising a biologically active catalytic fragment of human collagenase-3 (MMP-13) complexed with N-Hydroxy-2-[(4-methoxy-benzenesulfonyl)-pyridin-3-ylmethyl-amino]-3-methyl-benzamide ("Compound A").
- 2. The solution of Claim 1, wherein the catalytic fragment of MMP-13 comprises the amino acid residues of Figure 1.
 - 3. The solution of Claim 2, comprising 1 mM MMP-13 complexed with Compound A in a 1:1 molar ratio, in a buffer comprising 10mM deuterated Tris-Base, 100mM NaCl, 5mM CaCl₂, 0.1mM ZnCl₂, 2mM NaN₃, and 10 mM deuterated DTT in either 90% $H_2O/10\%$ D_2O or 100% D_2O .
 - 4. The solution of Claim 3, wherein the MMP-13 is either ¹⁵N enriched or ¹⁵N, ¹³C enriched.
 - 5. The solution of Claim 1, wherein the secondary structure of the catalytic fragment of MMP-13 comprises three alpha helices and a mixed parallel and anti-parallel beta sheet comprising five beta strands.
 - 6. The solution of Claim 5, wherein the alpha helices and beta strands are configured in the order β_{I} , α_{A} , β_{II} , β_{III} , β_{IV} , β_{V} , α_{B} , and α_{C} .
 - 7. The solution of Claim 6, wherein the three alpha helices correspond to residues 28-44 (α_A), 112-123 (α_B) and 153-163 (α_C) of Figure 1, and the five beta strands correspond to residues 83-86 (β_I), 95-100 (β_{II}), 59-66 (β_{II}), 14-20 (β_{IV}), and 49-53 (β_V) of Figure 1.
 - 8. A crystallized catalytic fragment of MMP-13 complexed with N-Hydroxy-2-[(4-methoxy-benzenesulfonyl)-pyridin-3-ylmethyl-amino]-3-

methyl-benzamide ("Compound A").

- 9. The crystallized complex of Claim 8, wherein the catalytic fragment of MMP-13 comprises the amino acid residues of Figure 1.
- 10. The crystallized complex of Claim 9, characterized as being in orthorhombic form with space group P21212, and having unit cell parameters of $a=108.3\text{\AA}$, $b=79.8\text{\AA}$, and $c=36.1\text{\AA}$.
- 11. The crystallized complex of Claim 10, further characterized as consisting of two molecules of MMP-13:Compound A complex in the asymmetric unit.
- 12. The crystallized complex of Claim 11, wherein the secondary structure of the catalytic fragment of MMP-13 comprises three alpha helices and a mixed parallel and anti-parallel beta sheet comprising five beta strands.
- 13. The crystallized complex of Claim 12, wherein the alpha helices and beta strands are configured in the order β_{I} , α_{A} , β_{II} , β_{III} , β_{IV} , β_{V} , α_{B} , and α_{C} .
- 14. The crystallized complex of Claim 13, wherein the three alpha helices correspond to residues 28-44 (α_A), 112-123 (α_B) and 153-163 (α_C) of Figure 1, and the five beta strands correspond to residues 83-86 (β_I), 95-100 (β_{II}), 59-66 (β_{III}), 14-20 (β_{IV}), and 49-53 (β_V) of Figure 1.
- 15. An active site of MMP-13, characterized by a catalytic zinc, a beta strand, a Ca²⁺ binding loop, an alpha helix, and a random coil region.

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- 16. The active site of Claim 15, wherein the beta strand comprises residues N14, L15, T16, Y17, R18, I19, and V20 according to Figure 1, the Ca²⁺ binding loop comprises residues F75, D76, G77, P78, and S79 according to Figure 1, the alpha helix comprises residues N112, L113, F114, L115, V116, A117, A118, H119, E120, F121, G122, and H123 according to Figure 1, and the random coil region comprises residues P139, I140, and Y141 according to Figure 1.
- 17. The active site of Claim 16, wherein said active site comprises the relative structural coordinates of the catalytic zinc and amino acid residues N14, L15, T16, Y17, R18, I19, V20, F75, D76, G77, P78, S79, N112, L113, F114, L115, V116, A117, A118, H119, E120, F121, G122, H123, P139, I140, and Y141 according to the solution or crystal coordinates of Figures 4 or 5, respectively, in each case, \pm a root mean square deviation from the catalytic zinc and the conserved backbone atoms of said amino acids of not more than 1.5Å.
- 18. The active site of Claim 17, further comprising the relative structural coordinates of amino acid residues G80, L81, L82, A83, H84, A85, K109, G110, Y111, S124, L125, G126, L127, D128, H129, S130, K131, D132, P133, G134, A135, L136, M137, F138, T142, Y143, T144, and G145 according to the solution or crystal coordinates of Figures 4 or 5, respectively, in each case, \pm a root mean square deviation from the conserved backbone atoms of said amino acids of not more than 1.5Å.
- 19. The active site of Claim 18, further comprising the relative structural coordinates of amino acid residues F149 and P152 according to the solution or crystal coordinates of Figures 4 or 5, respectively, in each case, \pm a root mean square deviation from the conserved backbone atoms of said amino acids of not more than 1.5Å.

- 20. An active site of MMP-13 comprising the relative structural coordinates of a catalytic zinc and amino acid residues L81, L82, L115, V116, H119, L136 and I140 according to the solution or crystal coordinates of Figures 4 or 5, respectively, in each case, \pm a root mean square deviation from the catalytic zinc and the conserved backbone atoms of said amino acids of not more than 1.5Å.
- 21. A method for identifying a potential inhibitor or activator of MMP-13, comprising the steps of:
- (a) using a three dimensional structure of MMP-13 as defined by the relative structural coordinates of amino acids encoding MMP-13 according to Figures 4 or 5, \pm a root mean square deviation from the conserved backbone atoms of said amino acids of not more than 1.5Å;
- (b) employing said three-dimensional structure to design or select a potential inhibitor or activator; and
- (c) synthesizing or obtaining said potential inhibitor or activator.
- 22. The method according to Claim 21, wherein the potential inhibitor is designed de novo.
- 23. The method according to Claim 21, wherein the potential inhibitor is designed from a known inhibitor.
- 24. The method of Claim 22, further comprising the step of contacting the potential inhibitor with MMP-13 in the presence of a substrate to determine the ability of the potential inhibitor to inhibit MMP-13.
- 25. The method of Claim 23, further comprising the step of contacting the potential inhibitor with MMP-13 in the presence of a substrate to determine the ability of the potential inhibitor to inhibit MMP-13.

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- 26. The method according to Claim 21, wherein the step of employing the three dimensional structure to design or select the potential inhibitor comprises the steps of:
- (a) identifying chemical entities or fragments capable of associating with MMP-13; and
- (b) assembling the identified chemical entities or fragments into a single molecule to provide the structure of the potential inhibitor.
- 27. The method according to Claim 26, wherein the potential inhibitor is designed de novo.
- 28. The method according to Claim 26, wherein the potential inhibitor is designed from a known inhibitor.
- 29. The method of Claim 27, further comprising the step of contacting the potential inhibitor with MMP-13 in the presence of a substrate to determine the ability of the potential inhibitor to inhibit MMP-13.
- 30. The method of Claim 28, further comprising the step of contacting the potential inhibitor with MMP-13 in the presence of a substrate to determine the ability of the potential inhibitor to inhibit MMP-13.
- 31. An inhibitor identified or designed by the method of Claim 21.
- 32. An inhibitor identified or designed by the method of Claim 26.

YNVFP	RTLKW	SKMNL	TYRIV	NYTPD
5	10	15	20	25
MTHSE	VEKAF	KKAFK	VWSDV	TPLNF
30	35	40	45	50
TRLHD	GIADI	MISFG	IKEHG 70	DFYPF
55	60	65		75
DGPSG	LLAHA	FPPGP	NYGGD	AHFDD
80	85	90	95	100
DETWT	SSSKG	YNLFL	VAAHE	FGHSL
105	110	115	120	125
GLDHS	KDPGA	LMFPI	YTYTG	KSHFM
130	135	140	145	150
LPDDD 155	VQGIQ 160	SLYG 164		

FIG. 1

Sequence 1: MMP-13 Sequence 2: MMP-1

Identity score:

58.9 %

VGEYNVFPRTLKWSKMNLTYRIVNYTPDMTHSEVEKAFKKAFKVWSDVTPLNFTRLHDGIADIMISFGIKEHGDFYPFDG LTEGN PR WEQTHLTYRIENYTPDLPRADVDHAIEKAFQLWSNVTPLTFTKVSEGQADIMISFVRGDHRDNSPFDG

PSGLLAHAFPPGPNYGGDAHFDDDETWTS PIYTYTGKSHFMLPDDDVQ SSKGYNLF

LVAAHEFGHSLGLDHSKDPGALMF

PGGNLAHAFQPGPGIGGDAHFDEDERWTNNFREYNLHRVAAHELGHSLGLS HST DIGALMYPSYTFSGDVO

LAODD

GIQSLYGPGDEDPN GIQAIYGRSQ

FIG. 2A

Sequence 1: MMP-13 Sequence 2: MMP-8

Identity score:

61.4 %

VGEYNVFPRTLKWSKMNLTYRIVNYT PDMTH S EVEKAFKKAFKVWSDVTPLNFTRLHDGIADIMISFGIKEHGDFYPFDG NPKWER T NLTYRIRNYTP QLSEA EVERAI KDAFEL WSVASPLI FTRISQGEADINIAFYQRDHGDNSPFDG

PSGLLAHAFPPGPNYGGDAHFDDDETWTSSSKGYNLFLVAAHEFGHSLGLDHSKDPGALMF <u>PIYTYTGKSHFMLPDDD</u>VQ PNGILAHAFQPGQGIGGDAHFDAEETWTNTSANYNLFLVAA HEFGHSLGLAHSSDPGALMY<u>PNYAF RETSNYSLPODD</u> ID

GIQSLYGPGDEDPN GIQAIYG

FIG. 2B

FIG. 3

		Atom	Res		x	Y .	z		
ATOM	•	Туре	a.m	•					
ATOM	1 2	N HN	THR	7	-12.675	-13.911	-8.815	1.00	0.83
ATOM	3	CA	THR THR	7	-12.001	-14.254	-8.192	1.00	1.22
ATOM	4	HA	THR	· 7	-14.063	-13.649	-8.340	1.00	0.63
ATOM	5	CB	THR	7 7	-14.744	-14.330	-8.830	1.00	0.73
ATOM	6	HB	THR	ŕ	-14.132	-13.858	-6.825	1.00	0.61
ATOM	7	0G1	THR	ź	-13.473 -13.730	-13.158 -15.185	-6.335	1.00	0.66
ATOM	á	HG1	THR	'n	-13.730		-6.514	1.00	0.71
ATOM	9	CG2	THR	'n	-15.564	-15.690 -13.628	-7.330	1.00	1.07
ATOM	10	HG21	THR	ŕ	-15.712	-12.577	-6.336 -6.139	1.00	0.67
ATOM	īi	HG22	THR	ż	-15.728	-14.191	-5.429	1.00	1.14
ATOM	12	HG23	THR	ż	-16.261	-13.955	-7.093	1.00	1.23
ATOM	13	C	THR	ż	-14.451	-12.208	-8.678	1.00	0.52
ATOM	14	ŏ	THR	7	-15.416	-11.962	-9.374	1.00	0.65
ATOM	15	N	LEU	8	-13.704	-11.254	-8.195	1.00	0.47
ATOM	16	HN	LEU	š	-12.927	-11.473	-7.639	1.00	0.61
ATOM	17	CA	LEU	8	-14.027	-9.831	-8.495	1.00	0.42
ATOM	18	HA	LEU	8	-15.098	-9.715	-8.575	1.00	0.43
ATOM	19	CB	LEU	8	-13.495	-8.937	-7.370	1.00	0.52
ATOM	20	HB1	LEU	- 8	-13.721	-7.905	-7.591	1.00	0.54
ATOM	21	HB2	LEU	8	-12.424	-9.060	-7.292	1.00	0.58
ATOM	22	CG	LEU	8	-14.151	-9.331	-6.042	1.00	0.60
ATOM	23	HG	LEU	8	-13.958	-10.376	-5.844	1.00	0.60
ATOM	24	CD1	LEU	8	-13.566	-8.484	-4.910	1.00	0.74
MOTA	25	HD11	LEU	8	-13.899	-8.875	-3.960	1.00	1.22
ATOM	26	HD12	LEU	. 8	-13.900	-7.462	-5.016	1.00	1.26
ATOM	27		LEU	. 8	-12.488	-8.518	-4.956	1.00	1.31
ATOM	28	CD2	LEU	8	-15.664	-9.096	-6.117	1.00	0.61
MOTA	29			8	-15.871	-8.278	-6.791	1.00	1.13
ATOM	30	HD22	LEU	8	-16.040	-8.856	-5.134	1.00	1.18
ATOM	31	HD23	LEU	8	-16.149	-9.991	-6.478	1.00	1.26
ATOM	32	C	LEU	8	-13.374	-9.438	-9.822	1.00	0.40
ATOM	33	0	LEU	8	-12.218	-9.722	-10.064	1.00	0.45
MOTA	34	N	LYS	9	-14.109	-8.795	-10.687	1.00	0.36
MOTA	35	HN	LYS	9	-15.042	-8.581	-10.474	1.00	0.36
ATOM	36	CA	LYS	9	-13.536	-8.393	-12.002	1.00	0.37
ATOM	37		LYS	9	-12.521	-8.050	-11.862	1.00	0.39
ATOM	38	CB	LYS	9	-13.539	-9.599	-12.944	1.00	0.50
MOTA	39	HB1	LYS	9	-12.851	-10.344	-12.573	1.00	0.60

FIG. 4

ATOM	40	HB2 LY	'S 9	-13.233	-9.286	-13 032	1.00	0.48
					10 103	-13.932		
ATOM	41	CG LY			-10.193	-13.007	1.00	0.60
MOTA	42	HG1 LY	'S 9	-15.632	-9.455		1.00	0.66
ATOM	43	HG2 LY			-10.482	-12.014	1.00	0.78
MOTA	. 44	CD LY						
			3 9			-13.921	1.00	0.94
MOTA	45	HD1 LY				-14.033	1.00	1.57
MOTA	46	HD2 LY	'S 9	-15.344	-11.147	-14.889	1.00	1.62
MOTA	47	CE LY		-15.829		-13.303	1.00	0.57
MOTA	48	HE1 LY		-16.776	-12.086	-13.007	1.00	1.15
MOTA ,	49	HE2 LY	'S 9	-15.333	-12.924	-12.437	1.00	1.10
ATOM `	50	NZ L				-14.304	1.00	1.61
ATOM	51							
		HZ1 LY				-14.445	1.00	2.14
MOTA	52	HZ2 LY		-16.358	-13.168	-15.207	1.00	2.13
MOTA	53	HZ3 L	rs 9	-16.802	-14.231	-13.959	1.00	2.14
MOTA	54	C L		-14.377		-12.605		
							1.00	0.32
MOTA	55	0 L		-15.493		-12.191	1.00	0.34
MOTA	56	N T	RP 10	-13.850	-6.571	-13.577	1.00	0.31
ATOM	57	HN TH	P 10	-12.947		-13.895	1.00	0.33
	58							
MOTA		CA T		-14.618		-14.201	1.00	0.30
MOTA	59	HA TI	IP 10	-15.030	-4.826	-13.427	1.00	0.29
ATOM	60	CB TI	RP 10	-13.684	-4.630	-15.088	1.00	0.29
MOTA	61	HB1 T		-14.264	-3 017	-15.655		
							1.00	0.32
MOTA	62	HB2 TI		-13.157		-15.765	1.00	0.33
ATOM	63	CG T	RP 10	-12.699	-3.901	-14.230	1.00	0.25
MOTA	64	CD1 TI	RP 10	-11.516		-13.812	1.00	0.30
MOTA	65			-11.137		14 040		
						-14.040	1.00	0.37
MOTA	, 66	CD2 TI	RP 10	-12.786	-2.553	-13.683	1.00	0.21
MOTA	67	NE1 T	RP 10	-10.872	-3.454	-13.042	1.00	0.30
ATOM	68	HE1 T		-9.996		-12.617		
					-3.509	-12.01/	1.00	0.36
MOTA	69	CE2 TI		-11.614	-2.295	-12.934	1.00	0.23
MOTA	70	CE3 TI	RP 10	-13.758	-1.538	-13.763	1.00	0.24
MOTA	71	HE3 TI	RP 10	-14.663	-1.706	-14.328	1.00	0.29
ATOM	72							
			RP 10	-11.412	-1.0/5	-12.287	1.00	0.22
MOTA	73		RP 10	-10.509	-0.903	-11.720	1.00	0.27
ATOM	74	CZ3 T	RP 10	-13.558	-0.309	-13.113	1.00	0.25
MOTA	75		RP 10	-14.310		-13.181	1.00	0.32
ATOM	76		RP 10	-12.387	-0.078	-12.376	1.00	0.23
MOTA	77	HH2 T	RP 10	-12.238	0.870	-11.879	1.00	0.26
ATOM	78	C T	RP 10	-15.755		-15.050	1.00	0.39
ATOM	79							
	_		RP 10	-15.641		-15.620	1.00	0.48
ATOM	80	N S	ER 11	-16.855	-5.332	-15.132	1.00	0.43
MOTA	81	HN S	ER 11	-16.927	-4.476	-14.660	1.00	0.44
ATOM	82							
			ER 11	-18.006		-15.936	1.00	0.52
MOTA	83	HA S	ER 11	-18.003		-15.930	1.00	0.59
ATOM	84	CB S	ER 11	-19.313	-5.330	-15.325	1.00	0.64
MOTA	85		ER 11	-19.120		-14.763	1.00	1.16
ATOM	86							
				-19.718		-14.666	1.00	1.20
MOTA	87	OG S	ER 11	-20.246	-5.067	-16.365	1.00	1.39
MOTA	88	HG S	ER 11	-19.821	-4.495	-17.008	1.00	1.92
MOTA	89	_	ER 11	-17.893	E 336	-17.379		
				-17.093			1.00	0.47
MOTA	. 90	0 S	er 11	-18.785	-5.528	-18.181	1.00	0.60
MOTA	91	N L	YS 12	-16.808	-4.692	-17.715	1.00	0.42
MOTA	92		YS 12	-16.101		-17.053	1.00	0.51
ATOM	93				4 170	-17.033		0.51
			YS 12	-16.646		-19.107	1.00	0.41
MOTA	94	HA L	YS 12	-17.243	-4.775	-19.781	1.00	0.47
ATOM	95	CB L	YS 12	-17.116	-2.722	-19.167	1.00	0.43
MOTA	96	HB1 L		-18.168		-18.926	1.00	
								0.50
MOTA	97	HB2 L	YS. 12	-16.957		-20.163	1.00	0.46
ATOM	98	CG L	YS 12	-16.327	-1.882	-18.160	1.00	0.41
MOTA	99	HG1 L	YS 12	-15.275		-18.401	1.00	0.37
MOTA	, 100	HG2 L		-16.484		-17.164	1.00	0.42
MOTA	101		YS 12	-16.805	-0.430	-18.223	1.00	0.50
ATOM	102	HD1 L		-17.856		-17.981	1.00	0.56
ATOM	103							
		HD2 L		-16.648		-19.220	1.00	0.65
ATOM.	104	CE L	YS 12	-16.018	0.412	-17.218	1.00	0.61
ATOM	105	HE1 L		-15.054	0 665	-17.636	1.00	1.15
MOTA	106	HE2 L			0.000	-11.030		
				-15.879		-16.307	1.00	1.16
MOTA	107	NZ L	YS 12	-16.773		-16.920	1.00	1.39
ATOM	108	HZ1 L	YS 12	-16.498		-15.983	1.00	1.90
MOTA	109	HZ2 L			1 450			
				-17.794		-16.927	1.00	1.87
ATOM	110	HZ3 L		-16.556	2.379	-17.640	1.00	1.97
MOTA	111	C L	YS 12	-15.175	-4.269	-19.521	1.00	0.36
ATOM	112		YS 12	-14.284				
						-18.695	1.00	0.34
ATOM	113		ET 13	-14.917	-4.380	-20.796	1.00	0.37
ATOM	114	HN M	ET 13	-15.652		-21.443	1.00	0.40
MOTA	115		ET 13	-13.506	- ·	-21.269	1.00	0.38
ATOM	116							
	110	····	et 13	-12.910	-4.904	-20.506	1.00	0.39

				_			
ATOM	117	CB MET	13	12 460	E 330 00 E43		
		HB1 MET		-13.469	-5.332 -22.543	1.00 0.46	
MOTA			13	-12.523	-5.189 -23.043	1.00 0.53	
MOTA		HB2 MET	13	-14.273	-5.031 -23.199	1.00 0.42	
MOTA		CG MET	13	-13.632	-6.809 -22.178	1.00 0.64	
MOTA		HG1 MET	13	-12.857	-7.097 -21.483	1.00 1.26	
MOTA	122	HG2 MET	13.	-13.556	-7.411 -23.071	1.00 1.37	
ATOM	123	SD MET	13	-15.252	-7.067 -21.414	1.00 1.22	
MOTA		CE MET	13	-14.663	-7.870 -19.903	1.00 0.57	
ATOM		HE1 MET	13	-14.020	-7.189 -19.362		
ATOM			13		-7.169 -19.362	1.00 1.16	
				-14.107	-8.758 -20.158	1.00 1.09	
ATOM		HE3 MET	13	-15.508	-8.141 -19.286	1.00 1.20	
ATOM		C MET	13	-12.936	-3.095 -21.560	1.00 0.32	
ATOM		o met	13	-11.793	-2.957 -21.948	1.00 0.35	
ATOM		n asn	14	-13.718	-2.064 -21.371	1.00 0.28	
MOTA	131 1	HN ASN	14	-14.635	-2.199 -21.052	1.00 0.29	
MOTA	132 (CA ASN	14	-13.217	-0.681 -21.631	1.00 0.26	
ATOM	133	HA ASN	14	-12.359	-0.725 -22.286	1.00 0.29	
MOTA		CB ASN	14	-14.319	0.148 -22.297	1.00 0.30	
ATOM		HB1 ASN	14	-14.025	1.186 -22.318		
ATOM		HB2 ASN	14			1.00 0.31	
ATOM		CG ASN		-15.235	0.043 -21.735	1.00 0.31	
			14	-14.539	-0.346 -23.729	1.00 0.37	
ATOM		OD1 ASN	14	-13.677	-0.981 -24.304	1.00 1.16	
ATOM		ND2 ASN	14	-15.664	-0.077 -24.334	1.00 1.05	
MOTA		D21 ASN	14	-16.359	0.435 -23.871	1.00 1.81	
MOTA		D22 ASN	14	-15.812	-0.386 -25.252	1.00 1.06	
ATOM		C ASN	14	-12.813	-0.024 -20.309	1.00 0.22	
ATOM	143 (O ASN	14	-13.566	-0.019 -19.357	1.00 0.23	
ATOM	144 1	N LEU	15	-11.630	0.533 -20.247	1.00 0.21	
ATOM	145 E	HN LEU	15	-11.042	0.517 -21.031	1.00 0.24	
ATOM		CA LEU	15	-11.171	1.194 -18.987		
ATOM		HA LEU	15	-12.025	1.134 ~10.30/	1.00 0.18	
ATOM					1.447 -18.379	1.00 0.19	
		CB LEU	15	-10.250	0.243 -18.210	1.00 0.18	
MOTA		HB1 LEU	15	-9.812	0.769 -17.375	1.00 0.19	
ATOM		HB2 LEU	15	-9.463	-0.102 -18.865	1.00 0.21	
ATOM		CG LEU	15	-11.046	-0.964 -17.696	1.00 0.19	
MOTA		HG LEU	15	-11.547	-1.442 -18.525	1.00 0.20	
ATOM	153 (CD1 LEU	15	-10.086	-1.961 -17.044	1.00 0.20	
ATOM	154 HI	D11 LEU	15	-9.726	-1.556 -16.110	1.00 0.98	
ATOM	155 HI	D12 LEU	15	-9.251	-2.141 -17.704	1.00 1.04	
MOTA		D13 LEU	15	-10.604	-2.890 -16.857	1.00 1.07	
ATOM		CD2 LEU	15	-12.083	-0.513 -16.658	1.00 0.21	
ATOM		021 LEU	15	-12.114	-1.228 -15.850		
MOTA		022 LEU	15	-13.055	-0.456 -17.122		
MOTA		D23 LEU	15	-11.814	0.450 -17.122	1.00 1.00	
ATOM	161		15	-10.397	0.457 -16.268	1.00 1.04	
ATOM		D LEU	15		2.471 -19.334	1.00 0.18	
ATOM		N THR.		-9.785	2.570 -20.380	1.00 0.20	
•			16	-10.425	3.447 -18.460	1.00 0.18	
MOTA		IN THR	16	-10.929	3.338 ~17.627	1.00 0.18	
MOTA		CA THR	16	-9.699	4.729 -18.722	1.00 0.19	
ATOM		HA THR	. 16	-9.051	4.617 -19.574	1.00 0.20	
MOTA	167 (CB THR	16	-10.716	5.839 -18.996	1.00 0.22	
MOTA	168 F	HB THR	16	-10.198	6.729 -19.315	1.00 0.24	
MOTA	169 (OG1 THR	16	-11.445	6.112 -17.808	1.00 0.23	
MOTA	170 F	HG1 THR	16	-11.821	5.286 -17.495	1.00 0.98	
MOTA		CG2 THR	16	-11.680	5.393 -20.096		
MOTA		321 THR	16	-12.200	6.254 -20.489	1.00 0.26	
ATOM		322 THR	16	-12.396		1.00 1.05	
ATOM		323 THR	16		4.696 -19.686	1.00 1.02	
ATOM	175			-11.125	4.914 -20.889	1.00 1.05	
MÒTA			16	-8.864	5,100 -17.495	1.00 0.17	
		THR	16	-9.157	4.687 -16.391	1.00 0.16	
MOTA		N TYR	17	-7.826	5.878 -17.675	1.00 0.18	
ATOM		IN TYR	17	-7.603	6.202 -18.574	1.00 0.19	
MOTA		CA TYR	17	-6.981	6.268 -16.507	1.00 0.17	
ATOM .	180 F	IA TYR	17	-7.585	6.233 -15.615	1.00 0.17	
MOTA	181 (CB TYR	17	-5.814	5.288 -16.362	1.00 0.19	
ATOM		HB1 TYR	17	-6.194	4.278 -16.347		
ATOM		B2 TYR	17	-5.292		1.00 0.19	
ATOM		G TYR	17			1.00 0.20	
ATOM		D1 TYR	17	-4.857	5.445 -17.520	1.00 0.22	
ATOM				-5.037	4.685 -18.682	1.00 0.26	
MOTA		ID1 TYR	17	-5.867	3.998 -18.755	1.00 0.27	
		D2 TYR	17	-3.782	6.336 -17.426	1.00 0.25	
MOTA		ID2 TYR	17	-3.643	6.923 -16.530	1.00 0.26	
MOTA		E1 TYR	17	-4.143	4.817 -19.751	1.00 0.31	
MOTA		IE1 TYR	17	-4.282	4.231 -20.647	1.00 0.36	
MOTA		E2 TYR	17	-2.888	6.470 -18.496	1.00 0.30	
MOTA		E2 TYR	17	-2.059	7.158 -18.424	1.00 0.35	
MOTA	193. C	Z TYR	17	-3.068	5.710 -19.658	1.00 0.32	

ATOM	194 OH TYR	17	-2.186	5.839 -20.711	1.00 0.39
MOTA	195 HH TYR	17	-1.696	5.016 -20.790	1.00 0.85
ATOM	196 C TYR	17	-6.448	7.692 -16.690	1.00 0.19
ATOM			-6.414		
		17		8.220 -17.784	1.00 0.21
MOTA	198 N ARG	18	-6.044	8.320 -15.616	1.00 0.19
MOTA	199 HN ARG	18	-6.089	7.874 -14.747	1.00 0.19
ATOM	200 CA ARG	18	-5.523	9.714 -15.712	1.00 0.22
MOTA	201 HA ARG	18	-5.131	9.877 -16.704	1.00 0.24
MOTA	202 CB ARG	18	-6.674	10.691 -15.447	1.00 0.27
ATOM	203 HB1 ARG	18	-6.978	10.613 -14.412	1.00 0.31
				10.013 -14.412	
VION	ZU4 NDZ ANG	18	-7.507	10.442 -16.083	1.00 0.30
ATOM	205 CG ARG	18	-6.229	12.127 -15.733	1.00 0.35
MOTA	206 HG1 ARG	18	-5.504	12.137 -16.531	1.00 0.93
ATOM	207 HG2 ARG	18	-5.790	12.549 ~14.843	1.00 0.85
MOTA	208 CD ARG	18	-7.447	12.946 -16.149	1.00 0.81
ATOM	209 HD1 ARG	18	-8.216	12.867 -15.378	1.00 1.29
ATOM	210 HD2 ARG	18	-7.838	12.561 -17.068	1.00 1.63
ATOM	211 NE ARG	18	-7.030	14.362 -16.406	1.00 1.52
ATOM	_			14.711 17.310	
		18	-7.071	14.711 -17.318	1.00 2.11
ATOM	213 CZ ARG	18	-6.561	15.119 -15.456	1.00 2.24
MOTA	214 NH1 ARG	· 18	-6.119	16.314 -15.736	1.00 3.18
MOTA	215 HH11 ARG	18	-6.142	16.647 -16.679	1.00 3.48
MOTA	216 HH12 ARG	18	-5.760	16.898 -15.009	1.00 3.84
MOTA	217 NH2 ARG	18	-6.564	14.700 -14.220	1.00 2.63
ATOM	218 HH21 ARG	18	-6.928	13.795 -14.000	1.00 2.44
MOTA	219 HH22 ARG	18	-6.205	15.285 -13.493	1.00 3.49
MOTA	220 C ARG		-4.413	0 031 14 636	
		18.		9.931 -14.676	1.00 0.21
ATOM	0 12/0	18	-4.550	9.576 -13.522	1.00 0.23
ATOM	222 N ILE	19	-3.314	10.514 -15.079	1.00 0.21
MOTA	223 HN ILE	19	-3.223	10.794 -16.014	1.00 0.22
ATOM	224 CA ILE	19	-2.196	10.755 -14.118	1.00 0.23
MOTA	225 HA ILE	19	-2.200	9.985 -13.360	1.00 0.25
MOTA	226 CB ILE	19	-0.864	10.721 -14:875	1.00 0.25
ATOM	227 HB ILE	19	-0.862	11.491 -15.633	
ATOM	228 CG1 ILE				1.00 0.25
		19	-0.702	9.341 -15.531	1.00 0.29
MOTA	229 HG11 ILE	19	-1.607	9.092 -16.065	1.00 0.82
MOTA	230 HG12 ILE	19	-0.525	8.601 -14.765	1.00 0.97
MOTA	231 CG2 ILE	19	0.291	10.962 -13.893	1.00 0.29
MOTA	232 HG21 ILE	19	1.231	10.914 -14.420	1.00 1.08
ATOM	233 HG22 ILE	19	0.272	10.206 -13.123	1.00 1.09
ATOM	234 HG23 ILE	19	0.187	11.937 -13.440	1.00 1.00
ATOM	235 CD1 ILE	.19	0.477	9.345 -16.512	
ATOM	236 HD11 ILE	19			1.00 0.93
		_	1.402	9.216 -15.970	1.00 1.59
ATOM	237 HD12 ILE	19	0.501	10.280 -17.050	1.00 1.50
MOTA	238 HD13 ILE	19	0.360	8.533 -17.214	1.00 1.55
ATOM	239 C ILE	19	-2.381	12.126 -13.454	1.00 0.23
ATOM	240 O ILE	19	-2.355	13.150 -14.108	1.00 0.23
MOTA	241 N VAL	20	-2.563		1.00 0.25
ATOM	242 HN VAL	20	-2.578	11.314 -11.653	1.00 0.27
ATOM	243 CA VAL	20	-2.746	13.454 -11.454	1.00 0.27
ATOM	244 HA VAL	20	-3.496	14.035 -11.970	
ATOM			-3.490	12 205 12 215	1.00 0.27
ATOM		20	-3.202	13.205 -10.015	1.00 0.31
		20	-2.522	12.517 -9.534	1.00 0.32
ATOM	247 CG1 VAL	20	-3.216	14.529 -9.247	1.00 0.33
ATOM	248 HG11 VAL	20	-3.607	15.310 -9.883	1.00 0.97
ATOM	249 HG12 VAL	20	-2.211	14.782 -8.944	1.00 1.08
ATOM	250 HG13 VAL	20	-3.842	14.432 -8.372	1.00 1.10
MOTA	251 CG2 VAL	20	-4.612	12.611 -10.028	1.00 0.33
ATOM	252 HG21 VAL	20	-5.296	13.317 -10.476	1.00 1.05
ATOM	253 HG22 VAL	20	-4.924	12.401 -9.016	1.00 1.03
ATOM	254 HG23 VAL	20	-4.612		1.00 1.03
ATOM			-4.012	11.697 -10.602	1.00 1.11
MOTA		20	-1.424	14.231 -11.451	1.00 0.27
	256 O VAL	20	-1.403	15.435 -11.611	1.00 0.26
MOTA	257 N ASN	21	-0.321		1.00 0.28
MOTA	258 HN ASN	21	~0.357	12.585 -11.124	1.00 0.30
ATOM	259 CA ASN	21	0.992	14.265 -11.235	1.00 0.29
ATOM	260 HA ASN	21	0.973	15.076 -11.949	1.00 0.26
ATOM	261 CB ASN	21	1.235	14.829 -9.834	1.00 0.33
ATOM	262 HB1 ASN				
ATOM		21	0.544	15.637 -9.646	1.00 0.33
	263 HB2 ASN	21	2.249	15.199 -9.766	1.00 0.35
MOTA	264 CG ASN	21	1.022	13.727 -8.795	1.00 0.40
ATOM	265 OD1 ASN	21	0.459	12.694 ~9.097	1.00 1.01
MOTA	266 ND2 ASN	21	1.445	13.908 -7.574	1.00 0.88
ATOM	267 HD21 ASN	21	1.895	14.743 -7.330	1.00 1.50
MOTA	268 HD22 ASN	21	1.312	13.208 -6.901	1.00 0.88
MOTA	269 C ASN	21	2.116	13.291 -11.606	1.00 0.34
ATOM	270 O ASN	21	1.929		
	0 10011	£	1.363	12.090 -11.619	1.00 0.37

a most	271	N T	vn 11	2 274		11 022		
MOTA			YR 22	3.274		-11.933	1.00	0.38
MOTA	272		YR 22	3.387	14.783	-11.932	1.00	0.38
MOTA	273	CA T	YR 22	4.417	12.935	-12.340	1.00	0.46
ATOM	274	HA T	YR 22	4.067	11.929	-12.509	1.00	0.45
ATOM	275		YR 22	5.028	13.481	-13.630	1.00	0.49
ATOM	276							
	277			5.845	12.846	-13.938	1.00	0.56
MOTA			YR 22	5.397	14.482	-13.457	1.00	0.53
MOTA	278	CG T	YR 22	3.981	13.513	-14.714	1.00	0.43
ATOM	279	CD1 T	YR 22	3.684	12.352	-15.436	1.00	0.38
ATOM	280		YR 22	4.199	11.430	-15.212	1.00	0.39
ATOM	281		YR 22	3.313				
					14.708	-15.003	1.00	0.46
ATOM	282	HD2 T		3.543	15.603	-14.445	1.00	0.51
ATOM	283		YR 22	2.718	12.386	-16.447	1.00	0.36
ATOM	284	HE1 T	YR 22	2.490	11.491	-17.004	1.00	0.36
ATOM	285		YR 22	2.345	14.742	-16.013	1.00	0.44
MOTA	286		YR 22					
	287			1.828	15.663	-16.235	1.00	0.49
ATOM			YR 22	2.048	13.581	-16.735	1.00	0.39
ATOM	288		YR 22	1.095	13.615	∸17.733	1.00	0.43
MOTA	289	HH T	YR 22	1.173	14.457	-18.187	1.00	0.92
ATOM	290	СТ	YR 22	5.499	12.923	-11.258	1.00	0.56
ATOM	291		YR 22	6.554	12.378	-11.470	1.00	
ATOM	292	-	HR 23	5 240			1.00	1.38
				5.240	13.544	-10.130	1.00	0.47
ATOM	293		HR 23	4.372	13.987	-10.023	1.00	1.08
ATOM	294	CA T	HR 23	6.237	13.623	-9.004	1.00	0.46
MOTA	295	HA T	HR 23	5.848	14.338	-8.304	1.00	0.48
MOTA	296		HR 23	6.361	12.265	-8.273	1.00	0.62
MOTA	297	_	HR · 23	5.383	11.969			
	298					-7.921	1.00	0.68
MOTA		OG1 T		7.223	12.420	-7.156	1.00	0.86
MOTA	299		HR 23	7.941	11.788	-7.244	1.00	1.28
MOTA	300	CG2 T	HR 23	6.916	11.159	-9.181	1.00	0.59
MOTA	301		HR 23	7.753	11.533	-9.748	1.00	1.08
ATOM	302		HR 23	6.141	10.816			
						-9.850	1.00	1.16
ATOM	303		HR 23	7.245	10.332	-8.570	1.00	1.22
MOTA	304		HR 23	7.623	14.115	-9.523	1.00	0.40
MOTA	305	O T	HR 23	8.077	13.699	-10.565	1.00	0.45
MOTA	306	N P	RO 24	8.302	15.016	-8.823	1.00	0.42
MOTA	307	CA P	RO 24	9.625	15.520	-9.311	1.00	0.42
MOTA	308		RO 24	9.534	15.918	-10.307	1.00	
ATOM	309		RO 24	9.924	16.655			0.46
ATOM	310					-8.335	1.00	0.50
			RO 24	9.743	17.605	-8.815	1.00	0.57
MOTA	311		RO 24	10.955	16.598	-8.014	1.00	0.49
ATOM	312	CG P	RO 24	8.995	16.507	-7.129	1.00	0.66
ATOM	313	HG1 P	RO 24	. 8.613	17.475	-6.842	1.00	0.84
ATOM	314	HG2 P	RO 24	9.537	16.069	-6.303	1.00	0.76
MOTA	315		RO 24	7.832	15.598	-7.529	1.00	
ATOM	316		RO 24		11.096			0.56
				7.675	14.826	-6.786	1.00	0.62
ATOM	317		RO 24	6.940	16.183	-7.680	1.00	0.61
MOTA	· 318	C P	RO 24	10.743	14.470	-9.253	1.00	0.40
MOTA	319	Q P	RO 24	11.835	14.692	-9.737	1.00	0.40
MOTA	320	N A	SP 25	10.490	13.337	-8.662	1.00	0.44
ATOM	321		SP 25	9.608				
ATOM					13.172	-8.270	1.00	0.48
	322		SP 25	11.554	12.295	-8.577	1.00	0.48
MOTA	323		SP. 25	12.393	12.695	-8.025	1.00	0.51
ATOM	324		SP 25	11.016	11.062	-7.847	1.00	0.57
ATOM	325	HB1 A		11.719	10.249	-7.945	1.00	0.61
MOTA	326		SP 25	10.068	10.773	-8.276	1.00	0.56
ATOM	327		SP 25	10.827	11.394	-6.364		
ATOM	328	OD1 A					1.00	0.67
				10.079	10.689	-5.709	1.00	1.23
MOTA	329	OD2 A		11.437	12.348	-5.908	1.00	1.34
MOTA	330	C A	SP 25	12.025	11.916	-9.985	1.00	0.45
ATOM	331		SP 25	13.179	11,597	-10.191	1.00	0.55
ATOM	332		ET 26			-10.955		
MOTA	333			10 000	44.740	-10.933	1.00	0.40
MOTA			ET 26	10.220	12.209	-10.767	1.00	0.41
	334		ET 26	11.553		-12.348	1.00	0.42
ATOM	335		ET 26	. 12.624	11.686	-12.447	1.00	0.49
MOTA	336	CB M	ET 26	11.144	10.149	-12.656	1.00	0.53
MOTA	337	HB1 M		11.282		-13.709	1.00	0.55
MOTA	338	HB2 M		10.105		-12.397	1.00	0.51
ATOM	339		ET 26	12.011	2 100	-14.33/		
ATOM					3.180	-11.846	1.00	0.71
	340	HG1 M			9.288	-10.796	1.00	0.73
MOTA	341	HG2 M		13.053	9.419	-12.009	1.00	0.77
MOTA	342		ET 26	11.683	7.485	-12.380	1.00	0.89
MOTA	343	CE M	ET 26	10.000	7.330	-11.728	1.00	.0.59
MOTA	344	HE1 M	ET 26	9.292	7.456	-12.534	1.00	1.25
MOTA	345		ET 26	9.825	8.084	-10.979	1.00	1.23
MOTA	346		ET 26	9.877	6 353	-11.285	1 00	
MOTA	347		ET 26	10.872	10.332	-11.700	1.00	1.23
	347	• M	20	10.072	14.330	-13.344	1.00	0.34

MOTA	348	0	MET	26	9.897	13.184 -13.03	1.00	0.32
ATOM	349	N	THR	27	11.385	12.604 -14.54		0.33
MOTA	350	HN	THR	27	12.174	12.070 -14.77		0.38
ATOM	351	CA	THR	27	10.775	13.504 -15.56		
ATOM	352	HA						0.32
			THR	. 27	10.618	14.483 -15.13		0.35
ATOM	353	CB	THR	27	11.711	13.616 -16.76	1.00	0.39
ATOM	354	HB	THR	27	11.295	14.308 -17.484		0.42
MOTA	355	OG1	THR	27	11.852	12.338 -17.37		0.37
MOTA	356	HG1	THR	27	12.765	12.242 -17.65	3 1.00	0.94
MOTA	् ' 357	CG2	THR	27	13.080	14.121 -16.31	3 1.00	0.51
ATOM	358	HG21	THR	27	13.602	14.553 -17.15	1.00	1.14
ATOM	359	HG22	THR	27	13.655	13.297 -15.91		1.11
ATOM	360	HG23	THR	27	12.951	14.871 -15.54		1,12
ATOM	361	C	THR	27	9.436	12.921 -16.01		0.27
ATOM	362	ō	THR	27	9.177	11.743 -15.864		0.24
MOTA	363	Ň	HIS	28	8.580	13.740 -16.55		
ATOM	364	HN	HIS	28	8.807			0.32
ATOM	365					14.688 -16.65		0.37
		CA	HIS	28	7.253	13.241 -17.00		0.34
ATOM	366	HA	HIS	- 28	6.715	12.833 -16.16		0.36
MOTA	367	CB	HIS	28	6.457	14.403 -17.60	1 1.00	0.46
MOTA	368		HIS	28	5.428	14.104 -17.73	6 1.00	0.71
MOTA	369		HIS	28	6.880	14.676 -18.55	7 1.00	0.88
ATOM	370	CG	HIS	28	6.516	15.583 -16.669	9 1.00	0.73
ATOM	371	ND1	HIS	28 .	6.056	16.838 -17.03	6 1.00	1.66
ATOM	372	HD1	HIS	28	5.659	17.080 -17.89		2.30
MOTA	. 373	CD2	HIS	28	6.987	15.716 -15.38	7 1.00	1.33
MOTA	374		HIS	28	7.423	14.922 -14.79		2.01
ATOM:	375		HIS	28	6.258	17.664 -15.99		1.95
ATOM	376		HIS	28	5.993	18.711 -15.99		2.70
ATOM	377	NES	HIS	28	6.823			
ATOM	378					17.031 -14.96	2 1.00	1.71
		C	HIS	28		12.156 -18.06		0.30
MOTA	379	0	HIS	28	6.737	11.164 -18.08		0.30
MOTA	380	N	SER	29	8.362	12.338 -18.97	0 1.00	0.31
ATOM	381	HN	SER	29 .	8.912	13.149 -18.95	2 1.00	0.34
ATOM	382	CA	SER	29	8.567	11.319 -20.03	9 1.00	0.32
MOTA	383	HA	SER	29	7.660	11.217 -20.61	5 1.00	0.35
MOTA	384	CB	SER	. 29	9.699	11.775 -20.95		0.38
ATOM	385	HB1	SER	29	9.973	10.963 -21.62		0.39
MOTA	386	HB2	SER	29	10.555	12.056 -20.36		0.37
MOTA	387	OG	SER	29	9.265	12.896 -21.71	7 1.00	0.45
ATOM	388	HG	SER	29	9.157	12.614 -22.62	1.00	
ATOM	389	C	SER	29	8.931			0.96
ATOM	390					9.964 -19.42		0.26
		ő	SER	29	8.479	8.930 -19.87		0.26
MOTA	391	N	GLU	30	9.747	9.954 -18.40	5 1.00	0.24
ATOM	392	HN	GLU	30	10.107	10.796 -18.05		0.25
MOTA	393	CA	GLU	30	10.137	8.657 -17.77		0.22
MOTA	394	HA	GLU	30	10.484	7.978 -18.54	2 1.00	0.25
ATOM	395	CB	GLU	30	11.260	8.899 -16.76	9 1.00	0.23
ATOM	396	HB1	GLU	30	11.424	8.002 -16.19	1 1.00	0.24
ATOM	397	HB2	GLU	30	10.980	9.707 -16.10		0.22
ATOM	398	CG	GLU	30	12.547	9.268 -17.51		0.29
MOTA	399		GLU	30	12.386	10.165 -18.08	6 1 00	
ATOM	400		GLU	30	12.826	8.460 -18.17		0.67
ATOM	401	CD	GLU	30				0.68
ATOM	402		GLU	30	13.666	9.509 -16.49		0.84
MOTA					13.436	9.266 -15.32		1.49
MOTA	403		GLU	30	14.731	9:936 -16.90		1.59
	404	C	GLU	30	8.935	8.046 -17.05		0.17
MOTA	405	0	GLU	30	8.715	6.849 -17.08		0.19
MOTA	406	N	VAL	31	8.163	8.861 -16.38	7 1.00	0.16
MOTA	407	HN	VAL	31	8.366	9,819 -16.37	1 1.00	0.17
MOTA	408	CA	VAL	31	6.983	8.341 -15.64	0 1.00	0.16
MOTA	409	HA	VAL	- 31	7.292	7.527 -14.99		0.17
MOTA	410	CB	VAL	31	6.402	9.464 -14.78		0.20
MOTA	411	HB	VAL	31	6.261			
ATOM	412		VAL	31	5.058	9.021 -14.20	2 1.00	0.22
ATOM '		HG11		31	5.135	9.021 -14.20		0.23
MOTA		HG12				8.000 -13.86	7 1.00	0.97
	47.E	no12	VAL	31	4.298	9:090 -14.97	3 1.00	1.07
MOTA		HG13		31	4.793	9.659 -13.37		1.07
ATOM	416		VAL	31	7.364	9.785 -13.63		0.24
ATOM		HG21		31	7.528	8.897 -13.04		1.05
MOTA		HG22		31	6.936	10.557 -13.01	3 1.00	1.03
ATOM		HG23		31	8.304	10.129 -14.04	0 1.00	0.99
MOTA	420	С	VAL	31	5.911	7.844 -16.61	7 1.00	0.16
MOTA	421	0	VAL	31	5.293	6.817 -16.40	6 1.00	0.17
ATOM	422	N	GLU	32	5.672	8.571 -17.67	7 1.00	
ATOM	423	HN	GLU	32	6.172	9.401 -17.82		0.18
ATOM	424	CA	GLU	32	4.626			0.19
	767	~~~		76	4.020	8.146 -18.65	2 1.00	0 21

ATOM	425	HA GLU	32	. 3.673	8.092 -18.147	1.00	0.24
ATOM	426	CB GLU	32	4.533	9.170 -19.787	1.00	0.27
ATOM	427	HB1 GLU	32	3.922	8.772 -20.582	1.00	0.31
ATOM	428	HB2 GLU	32	5.524	9.379 -20.164	1.00	0.28
MOTA	429	CG GLŮ	32	3.904	10.463 -19.262	1.00	0.29
MOTA	430	. HG1 GLU	32	4.456	10.812 -18.405	1.00	0.48
MOTA	431	HG2 GLU	32	2.879	10.272 -18.977	1.00	0.52
MOTA	432	CD GLU	32	3.937	11.529 -20.359	1.00	0.70
MOTA	433	OE1 GLU	32	4.969	12.161 -20.513	1.00	1.37
ATOM	434	OE2 GLU	32	2.929	11.696 -21.026	1.00	1.45
MOTA	435	C GLU	. 32	4.962	6.773 -19.235	1.00	0.20
MOTA MOTA	436	O GLU	32	4.126	5.893 -19.280	1.00	0.20
MOTA	437 438	N LYS		6.168	6.575 -19.689	1.00	0.20
MOTA	439	HN LYS	33 33	6.835	7.293 -19.654 5.249 -20.269	1.00	0.21
ATOM	440	HA LYS	33	6.518 5.825		1.00	0.21
MOTA	441	CB LYS	33	7.940	5.029 -21.068 5.281 -20.843	1.00	0.24
ATOM	442	HB1 LYS	33	7.987	6.024 -21.624	1.00	0.26 0.31
ATOM	443	HB2 LYS	33	8.179	4.312 -21.257	1.00	0.31
ATOM	444	CG LYS	33	8.954	5.631 -19.748	1.00	0.26
ATOM	445	HG1 LYS	33	8.823	4.970 -18.906	1.00	0.40
MOTA	446	HG2 LYS	33	8.799	6.648 -19.430	1.00	0.42
MOTA	447	CD LYS	33	10.380	5.469 -20.291	1.00	0.48
MOTA	448	HD1 LYS	33	10.466	4.517 -20.793	1.00	0.74
MOTA	449	HD2 LYS	33	11.080	5.505 -19.469	1.00	1.11
MOTA	450	CE LYS	33	10.705	6.593 -21.282	1.00	0.92
MOTA	451	HE1 LYS	33	10.398	7.543 -20.868	1.00	1.52
MOTA	452	HE2 LYS	33	10.184	6.419 -22.211	1.00	1.19
ATOM	453	NZ LYS	33	12.172	6.614 -21.538	1.00	1.60
MOTA	454	HZ1 LYS	33	12.668	6.957 -20.692	1.00	1.99
MOTA	455	HZ2 LYS	33	12.374	7.247 -22.340	1.00	2.14
MOTA MOTA	456	HZ3 LYS	33	12.498	5.653 -21.763	1.00	2.03
MOTA	457 458	C LYS	33	6.399	4.158 -19.202	1.00	0.19
ATOM	459	O LYS N ALA	33	6.054	3.035 ~19.495	1.00	0.20
ATOM	460	HN ALA	34 34	6.682	4.471 -17.966	1.00	0.17
ATOM	461	CA ALA	34	6.965 6.589	5.383 -17.740	1.00	0.18
ATOM	462	HA ALA	34	7.276	3.428 -16.904 2.625 -17.128	1.00	0.16
ATOM	463	CB ALA	34	6.952		1.00	0.18
MOTA	464	HB1 ALA	34	6.483	4.043 -15.551 3.476 -14.761	1.00 1.00	0.16
ATOM	465	HB2 ALA	34	6.604	5.065 -15.516		1.02
MOTA	466	HB3 ALA	34	8.024	4.022 -15.423	1.00	1.02
MOTA	467	C ALA	34	5.164	2.875 -16.844	1.00	0.16
MOTA	468	O ALA	- 34	4.954	1.677 -16.847	1.00	0.17
ATOM	469	N PHE	35	4.182	3.729 -16.792	1.00	0.16
ATOM	470	HN PHE	35	4.364	4.694 -16.792	1.00	0.16
ATOM	471	CA PHE	35	2.781	3.230 -16.736	1.00	0.17
ATOM	472	HA PHE	35	2.690	2.525 -15.924	1.00	0.17
ATOM ATOM	473 474	CB PHE	35	1.815	4.396 -16.508	1.00	0.18
MOTA	475	HB1 PHE HB2 PHE	35	0.802	4.060 -16.672	1.00	0.19
ATOM	476			2.045	5.192 -17.200	1.00	0.19
ATOM	477	CG PHE	35 35	1.953 1.616	4.902 -15.089 4.071 -14.011	1.00	0.18
ATOM	478	HD1 PHE	35	1.258	3.069 -14.191	1.00	0.19
ATOM	479	CD2 PHE	35	2.415	6.203 -14.849		0.19
MOTA	480	HD2 PHE	35	2.674	6.847 -15.677	1.00	0.20 0.21
MOTA	481	CE1 PHE	35	1.743	4.539 -12.699	1.00	0.21
MOTA	482	HE1 PHE	35	1.484	3.897 -11.870	1.00	0.23
ATOM	483	CE2 PHE	35	2.540	6.670 -13.535	1.00	0.22
ATOM	484	HE2 PHE	35	2.893	7.672 -13.349	1.00	0.24
ATOM	485	CZ PHE	35	2.205	5.838 -12.460	1.00	0.22
ATOM	486	HZ PHE	35	2.303	6.198 - 11.447	1.00	0.24
ATOM	487	C PHE	35	2.432	2.524 -18.048	1.00	0.18
MOTA	488	O PHE	35	1.770	1.507 -18.055	1.00	0.19
MOTA	489	N LYS	36	2.864	3.053 -19.162	1.00	0.19
MOTA	490	HN LYS		3.394	3.878 -19.144	1.00	0.19
ATOM ATOM	491	CA LYS	36	2.535	2.399 -20.460	1.00	0.22
ATOM	492 493	HA LYS	36	1.462	2.358 -20.574	1.00	0.23
ATOM	494	CB LYS	36	3.135	3.205 -21.614	1.00	0.24
ATOM	495	HB1 LYS	36	3.045	2.641 -22.530	1.00	0.27
ATOM	496	HB2 LYS	36 36	4.178	3.400 -21.412	1.00	0.24
ATOM	497	HG1 LYS	36	2.384	4.530 -21.758	1.00	0.27
ATOM	498	HG2 LYS	36	2.471	5.097 -20.844	1.00	0.69
MOTA	499	CD LYS	36	1.341 2.988	4.332 -21.963	1.00	0.68
ATOM	500	HD1 LYS	36	2.898	5.332 -22.913 4.766 -23.828	1.00	0.75
ATOM	501	HD2 LYS	36	4.032	5.525 -22.710	1.00 1.00	1.39 1.34
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ATOM	502	00	• •				
		CE LYS	36	2.243	6.659 -23.065	1.00 1.1	5
ATOM	503	HE1 LYS	36	2.728	7.415 -22.464	1.00 1.6	
ATOM	504	HE2 LYS	36	1.221	6.540 -22.736	1.00 1.6	
ATOM	505	NZ LYS	36	2.260	7.076 -24.496		
ATOM	506	HZ1 LYS	36	2.628	6 200 25 070	1.00 1.9	
ATOM	507	HZ2 LYS	36	2.020	6.298 -25.079	1.00 2.5	
ATOM	508	1102 110		2.871	7.911 -24.605	1.00 2.4	0
		HZ3 LYS	36	1.295	7.309 -24.801	1.00 2.3	8
MOTA	509	C LYS	36	3.098	0.976 -20.481	1.00 0.2	
ATOM	510	O LYS	36	2.446	0.053 -20.927	1.00 0.2	
ATOM .	, 511	N LYS	37	4.295	0.778 -19.995		
ATOM	512	HN LYS	37		0.776 -13.395	1.00 0.2	
ATOM	513			4.810	1.527 -19.629		
		CA LYS	37	4.864	-0.600 -19.988	1.00 0.2	2
MOTA	514	ha Lys	37	4.926	-0.974 -21.000	1.00 0.2	
MOTA	515	CB LYS	37	6.257	-0.581 -19.358	1.00 0.2	
MOTA	516	HB1 LYS	37	6.589	-1.596 -19.195		
ATOM	517	HB2 LYS	37	6.216	-0.061 -18.412		
ATOM	518	CG LYS	37	7.244	0.001 -10.412	1.00 0.2	
ATOM	519	HG1 LYS	37		0.130 -20.285	1.00 0.2	
MOTA				6.921	1.140 -20.459	1.00 0.29	5
	520	HG2 LYS	37	7.296	-0.398 -21.227	1.00 0.2	В
MOTA	521	CD LYS		8.625	0.139 -19.628	1.00 0.30	
MOTA	522	HD1 LYS	37	8.994	-0.873 -19.551	1.00 0.7	
ATOM	523	HD2 LYS	37	8.549	0.570 -18.640		
MOTA	524	CE LYS	37	9.594	0.968 -20.473	1.00 0.84	
MOTA	525	HE1 LYS	37		· · · · · · · · · · · · · · · · · · ·	1.00 0.90	
ATOM	526			10.530	1.076 -19.943	1.00 1.4	
ATOM .		HE2 LYS	37	9.169	1.945 -20.652	1.00 1.59	•
	527	nz lys	37	9.836	0.286 -21.774	1.00 1.7	7
ATOM .	528	HZ1 LYS	37	9.798	0.984 -22.543	1.00 2.2	
ATOM	529	HZ2 LYS	37	9.106	-0.439 -21.926		
MOTA	530	HZ3 LYS	37	10.774	-0.459 -21.926	1.00 2.28	
ATOM	531	C LYS			-0.161 -21.762	1.00 2.33	
ATOM			37	3.955	,-1.506 -19.158	1.00 0.20)
	532	O LYS	37	3.689	-2.636 -19.516	1.00 0.23	L
MOTA	533	N ALA	38	3.479	-1.013 -18.046	1.00 0.19	
MOTA	534	HN ALA	38	3.711	-0.098 -17.777	1.00 0.19	
ATOM	535	CA ALA	38	2.589	-1.838 -17.182		
ATOM	536	HA ALA	38		2.707 16.000	1.00 0.18	
ATOM	537	CB ALA		3.116	-2.727 -16.870	1.00 0.19	
ATOM			38	2.183	-1.030 -15.949	1.00 0.19	•
	538	HB1 ALA	38	2.831	-0.172 -15.851	1.00 1.05	5
MOTA	539	HB2 ALA	38	2.270	-1.649 -15.068	1.00 1.00	
ATOM	540	HB3 ALA	38	1.161	-0.698 -16.057	1.00 1.06	
MOTA	541	C ALA	38	1.338	-2.238 -17.965		
ATOM	542	O ALA	38	0.967	-2.230 -17.965	1.00 0.18	
ATOM	543	N PHE	39		-3.392 -18.012	1.00 0.19	
ATOM	544			0:688	-1.295 -18.589	1.00 0.18	}
MOTA		HN PHE	39	1.005	-0.368 - 18.547	1.00 0.18	}
	545	CA PHE	39	-0.535	-1.632 -19.367	1.00 0.19	
ATOM	546	ha Phe	39	-1.248	-2.122 -18.720	1.00 0.19	
MOTA	547	CB PHE	39	-1.156	-0.354 -19.937	1.00 0,21	
ATOM	548	HB1 PHE	39	-1.883	-0.614 -20.692		
ATOM	549	HB2 PHE	39	-0.381	0.014 -20.092	1.00 0.24	
MOTA	550	CG PHE			0.256 -20.378	1.00 0.21	
ATOM	551		39	-1.836	0.416 -18.829	1.00 0.20)
		CD1 PHE	39	-3.010	-0.080 -18.250	1.00 0.25	ò
ATOM	552	HD1 PHE	39	-3.429	-1.014 -18.595	1.00 0.30	
ATOM	553	CD2 PHE	39	-1.294	1.627 -18.380	1.00 0.17	
ATOM	554	HD2 PHE	39	-0.389	2.012 -18.827		
ATOM	555	CE1 PHE	39	-3.642		1.00 0.18	
ATOM	556	HE1 PHE	39			1.00 0.28	
ATOM	557	CE2 PHE		-4.548	0.250 -16.779	1.00 0.34	6
ATOM	558		39	-1.926	2.341 -17.354	1.00 0.18	}
		HE2 PHE	39	-1.507	3.275 -17.007	1.00 0.17	,
MOTA	559	CZ PHE	39	-3.099	1.843 -16.776	1.00 0.23	
ATOM	560	HZ PHE	39	-3.587	2.394 -15.985	1.00 0.26	
ATOM	561	C PHE	39	-0.154			
ATOM	.562	O PHE	39			1.00 0.18	
ATOM	563			-0.862	-3.509 -20.817	1.00 0.18	
ATOM	564		40	0.963	-2.330 -21.136	1.00 0.19	1
		HN LYS	40	1.522	. -1. 570 - 20.870	1.00 0.19	
ATOM	565	CA LYS	40	1.388	-3.214 -22.254	1.00 0.19	
ATOM	566	HA LYS	40	0.642	-3.186 -23.031		
ATOM	567	CB LYS	40	2.730	-2.707 -22.804	1.00 0.20	
MOTA	568	HB1 LYS	40			1.00 0.21	
MOTA	569	HB2 LYS		3.466	-2.723 -22.014	1.00 0.21	
ATOM	570		40	2.610	-1.692 -23.155	1.00 0.25	
		CG LYS	40	3.218	-3.588 -23.966	1.00 0.25	
ATOM	571	HG1 LYS	40	3.337	-4.604 -23.621	1.00 0.46	
ATOM	572	HG2 LYS	40	4.171	-3.218 -24.314	1.00 0.46	
ATOM	573	CD LYS	40	2.213			
ATOM	574	HD1 LYS	40	1.840		1.00 0.38	
ATOM	575	HD2 LYS	40		-2.555 -25.253	1.00 0.54	
MOTA	576	CE LYS		1.392	-4.227 -24.905	1.00 0.56	
ATOM	-		40	2.903	-4.019 -26.407	1.00 0.40	
	577	HE1 LYS	40	3.776	-4.604 -26.158	1.00 1.07	
MOTA	578	HE2 LYS	40	3 100	-3 167 -26 OOF	1 00 1.07	
						•	

MOTA	579	NZ	LYS	40	1.958	-4.852	-27.203	1.00	1.40
ATOM	580	HZ1	LYS	40	1.571		-26.602	1.00	1.95
ATOM	581	HZ2	LYS	40	2.464	_5 274	-28.009		
MOTA	582		LYS	40				1.00	1.92
ATOM	583				1.181	-4.258	-27.552	1.00	2.02
		C	LYS	40	1.553	-4.648	-21.740	1.00	0.17
MOTA	584	0	LYS		1.034	-5.583	-22.314	1.00	0.17
MOTA	585	N	VAL	41	2.271	-4.828	-20.663	1.00	0.17
MOTA	586	HN	VAL	41	2.681		-20.214	1.00	0.18
MOTA	587	CA	VAL	41	2.468	-6.204			
MOTA	588	HA	VAL	41	2.953			1.00	0.16
ATOM	589						-20.862	1.00	0.17
		CB	VAL	41	3.350	-6.143	-18.868	1.00	0.18
MOTA	590	HB	VAL	41	2.966		-18.192	1.00	0.41
MOTA	591		VAL	41	3.343	-7.508	-18.175	1.00	0.44
MOTA	592	HG11	VAL	41	2.420	-7.631	-17.629	1.00	1.16
MOTA	593	HG12	VAL	41	4.176	-7.571		1.00	1.18
MOTA		HG13		41	3.429	-8.289	-18.916		
ATOM	595		VAL	41			-10.910	1.00	1.11
ATOM		HG21	VAL		4.781	-5./85	-19.277	1.00	0.43
				41	5.132	-6.492	-20.013	1.00	1.12
MOTA	597	HG22	VAL	41	5.423	-5.820	-18.411	1.00	1.11
MOTA	598	HG23	VAL	41 .	4.797	-4.790		1.00	1.19
MOTA	599	C	VAL	41	1.122	-6.833	-19.751	1.00	0.16
ATOM	600	0	VAL	41	0.887	-7.999			
MOTA	601	N	TRP	42	0.240		-13.330	1.00	0.17
ATOM	602					-6.080		1.00	0.16
		HN	TRP	42	0.448	-5.143		1.00	0.17
MOTA	603	CA	TRP	42	-1.079			1.00	0.17
MOTA	604	HA	TRP	42	-0.927	-7.642	-18.352	1.00	0.17
MOTA	605	CB	TRP	42	-1.739		-17.699	1.00	0.18
ATOM	606	HB1	TRP	42	-2.787	-6 019	-17.621	1.00	
MOTA	607	HB2	TRP	42	-1.638	4 720	17.021		0.19
MOTA	608					-4./30	-17.983	1.00	0.20
		CG	TRP	42	-1.073	-5.990	-16.377	1.00	0.18
MOTA	609	CD1	TRP		-0.311	-5.082	-15.724	1.00	0.22
MOTA	610	HD1	TRP	42	-0.092	-4.084	-16.066	1.00	0.28
ATOM	611	CD2	TRP	42 .	-1.095		-15.539	1.00	0.19
MOTA	612	NE1	TRP	42	0.140	-5.643	-14.543	1.00	0.22
ATOM	613	HE1	TRP	42	0.714		-13.887		
ATOM	614	CE2	TRP	42	-0.315	-2.134	-13.00/	1.00	0.25
ATOM	615					-6.935	-14.384	1.00	0.20
		CE3	TRP	42	-1.707	-8.441	-15.669	1.00	0.25
MOTA	616	HE3	TRP.		-2.309	-8.658	-16.539	1.00	0.27
MOTA	617	CZ2	TRP	42	-0.149	-7.903	-13.393	1.00	0.24
MOTA	618	HZ2	TRP	42	0.454	-7.691	-12.521	1.00	0.25
MOTA	619	CZ3	TRP	42	-1.543	-9.418	-14.673		
ATOM	620	HZ3	TRP	42		-10.381	14.073	1.00	0.31
ATOM	621	CH2	TRP			-10.361	-14.782	1.00	0.39
ATOM				42	-0.764		-13.538	1.00	0.30
	622	HH2	TRP	42	-0.642	-9.904	-12.775	1.00	0.35
MOTA	623	С	TRP	42	-1.991	-6.754	-19.985	1.00	0.17
MOTA	624	. 0	TRP	42	-2.726	-7.706	-20.138	1.00	0.18
MOTA	625	N	SER	43	-1.952	-5 782	-20.855	1.00	0.17
ATOM	626	HN	SER	43	-1.352	-5.702	-20.713		
ATOM	627	CA	SER	43		-5.021	-20.713	1.00	0.17
ATOM	628	HA			-2.831	-5.825	-22.062	1.00	0.18
MOTA			SER	43	-3.846	-6.028	-21.759	1.00	0.19
	629	CB	SER	43	-2.779	-4.474	-22.775	1.00	0.20
MOTA	630	HB1	SER	43	-2.965		-22.059	1.00	0.21
MOTA	631	HB2	SER	43	-3.533	-4.442	-23.543	1.00	0.23
MOTA	632	OG	SER	43	-1.499	-4 304	-23.368	1.00	0.23
MOTA	633	HG	SER	43	-1.031		-23.309		
ATOM	634	Ċ	SER	43.	-2.358	-2.140	-23.309	1.00	0.97
ATOM	635					-0.922	-23.019	1.00	0.18
ATOM	636	0	SER	43	-3.085	-/.350	-23.893	1.00	0.21
		N	ASP	44	-1.148	-7.379	-22.866	1.00	0.17
ATOM	637	HN	ASP	44	-0.575	-7.019	-22.156	1.00	0.18
MOTA	638	CA	ASP	44	-0.632	-8.445	-23.770	1.00	0.18
ATOM	639	HA	ASP	44	-0.650	-8.086	-24.788		
MOTA	640	CB	ASP	44	0.809			1.00	0.19
ATOM	641	HB1					-23.386	1.00	0.20
ATOM	642			.44	1.117	-3.083	-23.915	1.00	0.21
		HB2		44	0.864	-8.969	-22.322	1.00	0.22
MOTA	643	CG	ASP	44	1.734	-7.635	-23.760	1.00	0.24
MOTA	644		ASP	44	1.340		-24.591	1.00	0.85
ATOM	645	OD2	ASP	44	2.820	-7.568	-23.209	1.00	0.84
MOTA	646		ASP	44	-1.499		-23.665		
ATOM	647		ASP	44	-1.753	-10 200	~23.005	1.00	0.19
ATOM	648					-10.366	-24.653	1.00	0.21
ATOM			VAL	45	-1.927	-10.058	-22.475	1.00	0.21
	649		VAL	45	-1.689	-9.519	-21.693	1.00	0.21
MOTA	650		VAL	45	-2.749	-11.299	-22.302	1.00	0.26
MOTA	651	HA	VAL	45	-2.833	-11.811	-23.247	1.00	0.28
MOTA	652		VAL	45			-21.303		
MOTA	653		VAL	45		-13.107	-21.303	1.00	0.30
ATOM	654	CG1			-0.043	-13.10/		1.00	0.37
ATOM				45	-0.0/8	-12.626	-21.866	1.00	0.36
··· OM	033	HG11	VAL	45	-0.210	-11 766	-33 333	1 00	4 ^*

					•		
ATOM	656 HG12 VAI	45	-0.810	-13.400	-22.607	1.00	1.02
ATOM	657 HG13 VAI			-12.995	-21.068	1.00	1.13
ATOM	658 CG2 VAL						
					-19.973	1.00	0.32
ATOM	659 HG21 VAI		-2.819	-11.303	-19.524	1.00	0.96
MOTA	660 HG22 VAI			-10.545	-20.149	1.00	1.09
MOTA	661 HG23 VAI	45	-1.258	-12.091	-19.305	1.00	1.11
ATOM	662 C VAL	45	-4.160	-10.966	-21.790	1.00	0.29
ATOM	663 O VAI				-21.249	1.00	0.64
MOTA	664 N THE					•	_
			-4.619	-9.748	-21.963	1.00	0.36
MOTA			-4.062	-9.076	-22.409	1.00	0.65
MOTA	666 CA THE	46	-5.998	-9.382	-21.491	1.00	0.38
MOTA	667 HA THE	46	-6.567	-10.277	-21.320	1.00	0.44
ATOM	668 CB THE		-5.912	-8.577	-20.186	1.00	0.39
ATOM	669 HB THE	_	-6.889	-8.193	-19.943	1.00	
ATOM							0.46
			-5.018		-20.358	1.00	0.36
ATOM	671 HG1 THE		-5.532		-20.608	1.00	0.94
MOTA	672 CG2 THE		-5.430	-9.461	-19.036	1.00	0.43
MOTA	673 HG21 THE	l 46	-4.929	-10.327	-19.429	1.00	1.08
MOTA	674 HG22 THE	46	-6.277		-18.445	1.00	1.15
MOTA	675 HG23 THE		-4.746	-8.901	-18.415	1.00	1.05
ATOM							
			-6.668	-8.482	-22.553	1.00	0.32
MOTA	677 O THE		-6.124		-22.892	1.00	0.32
MOTA	678 N PRO	47	-7.833	-8.829	-23.084	1.00	0.30
ATOM	679 CA PRO	47	-8.479	-7.951	-24.100	1.00	0.30
MOTA	680 HA PRO	47	-7.820	-7.790	-24.936	1.00	0.33
MOTA	681 CB PRO		-9.687	-8.773	-24.546		0.35
MOTA						1.00	
	. 682 HB1 PRO		-9.541	-9.110		1.00	0.40
MOTA	683 HB2 PRO	47	-10.579	-8.166	-24.489	1.00	0.37
MOTA	684 CG PRO	47	-9.825	~9.986	-23.621	1.00	0.35
ATOM	685 HG1 PRO	47	-9.916	-10.885	-24.212	1.00	0.42
ATOM	686 HG2 PRO		-10.703		-23.001	1.00	0.34
MOTA	687 CD PRO		-8.576	-10.077			
						1.00	0.33
ATOM	688 HD2 PRO		-8.853	-10.091	-21.692	1.00	0.31
ATOM	689 HD1 PRO		-7.993	-10.946	-22.999	1.00	0.39
ATOM	690 C PRO	47	-8.933	-6.614	-23.506	1.00	0.25
MOTA	691 O PRO	47	-9.744	-5.914	-24.080	1.00	0.26
MOTA	692 N LET		-8.418		-22.362	1.00	0.26
ATOM	693 HN LET						
			-7.766		-21.912	1.00	0.29
MOTA	694 CA LET				-21.742	1.00	0.26
MOTA	695 HA LET		-9.904	-4.905	-21.696	1.00	0.27
MOTA	696 CB LET	J 48	-8.241	-4.858	-20.329	1.00	0.31
ATOM	697 HB1 LET	J 48	-8.476		-19.909	1.00	0.34
ATOM	698 HB2 LE		-7.167		-20.385	1.00	0.33
MOTA	699 CG LET						
ATOM			-8.816	-5.964	-19.434	1.00	0.34
			-8.808		-19.972	1.00	0.32
ATOM	701 CD1 LET		-7.952	-6.091	-18.177	1.00	0.41
ATOM	702 HD11 LET		-8.002	-5.171	-17.613	1.00	1.11
MOTA	703 HD12 LET	J 48	-6.928	-6.283	-18.462	1.00	1.05
ATOM	704 HD13 LET	J 48	-8.315	-6 906	-17.570	1.00	1.15
MOTA	705 CD2 LET		-10.255				1.15
ATOM				-3.028	-19.016	1.00	0.36
	706 HD21 LET		-10.569		-19.478	1.00	1.10
ATOM	707 HD22 LET	J 48	-10.299	-5.524	-17.942	1.00	1.09
MOTA	708 HD23 LET		-10.912	-6.428	-19.325	1.00	1.04
ATOM	709 C LET	J 48	-8.289	-3.806	-22.589	1.00	0.25
ATOM	710 O LE	J 48	-7.174		-23.071	1.00	0.26
ATOM	711 N ASI		-9.073	-2 775	-22.762	1.00	0.25
ATOM	712 HN ASI						
ATOM			-9.964		-22.355	1.00	0.26
			-8.622		-23.568	1.00	0.25
ATOM	714 HA ASI		-7.703		-24.082	1.00	0.27
ATOM	715 CB ASI		-9.700	-1.245	-24.593	1.00	0.28
ATOM	716 HB1 ASI	1 49	-9.390	-0.375	-25.153	1.00	0.30
MOTA	717 HB2 AS1	1 49	-10.628		-24.081	1.00	0.28
ATOM	718 CG ASI						
MOTA			-9.902		-25.553	1.00	0.32
	719 OD1 ASI		-9.798		-25.161	1.00	1.10
ATOM .	720 ND2 ASI		-10.186		-26.804	1.00	1.14
MOTA	721 HD21 ASI	1 49	-10.268		-27.121	1.00	1.94
ATOM	722 HD22 ASI	1 49	-10.317		-27.427	1.00	1.14
ATOM	723 C ASI		-8.391		-22.633	1.00	0.24
ATOM	724 O ASI						0.24
ATOM			-9.290		-21.939	1.00	0.23
	725 N PHI		-7.192		-22.606	1.00	0.24
ATOM	726 HN PHI		-6.485		-23.173	1.00	0.26
ATOM .	727 CA PHI	3 50	-6.896		-21.710	1.00	0.23
MOTA	728 HA PHI		-7.688		-20.985	1.00	0.21
ATOM	729 CB PH		-5.574		-20.981		
ATOM	730 HB1 PH			1.070	-20.301	1.00	0.24
MOTA			-5.357	1.853	-20.334	1.00	0.25
	731 HB2 PHI		4.780	0.907		1.00	0.27
MOTA	732 CG PHI	3 50	-5 676	-0 243	-20 154	חח ד	ับ วง

ATOM	733	CD1	PHE	·50	-6.266	-0.201 -18.886		0.05
ATOM	734			50	-6.652	0.731 -18.500		0.25 0.28
ATOM	735			50	-5.176	-1.451 -20.654		
ATOM	736		PHE	50	-4.720	-1.483 -21.633		0.22
ATOM	737			50	-6.358	-1.368 -18.117		0.23
MOTA	738			50.	-6.813	-1.336 -17.139		0.25
ATOM	739			50	-5.267	-2.618 -19.886		0.28
ATOM	740			50	-4.881	-3.550 -20.272		0.23
ATOM	741		PHE	50	-5.858	-2.576 -18.618	1.00	0.25
ATOM	742		PHE	50	~5.928	-3.476 -18.025		0.24
ATOM	743		PHE	50	-6.777	2.538 -22.545		0.25
MOTA	744		PHE	50	-6.028	2.596 -23.501		0.26
ATOM	745		THR	51	-7.517	3.555 -22.184	1.00	0.31
ATOM	746		THR	51	-8.109	3.468 -21.413	1.00	0.24
ATOM	747		THR	51	-7.470	4.842 -22.940	1.00	0.22
ATOM	748		THR	51	-6.775	4.762 -23.762	1.00	0.27
ATOM	749		THR	51	-8.868	5.153 -23.483	1.00	0.31 0.30
MOTA	750	_	THR	51	-9.562	5.248 -22.663	1.00	0.30
ATOM	751			51	-9.283	4.100 -24.341	1.00	0.35
ATOM	752		THR	51	-9.638	4.491 -25.142	1.00	0.84
ATOM	753			51	-8.835	6.464 -24.273	1.00	0.34
ATOM	754			51	-9.805	6.640 -24.716		1.02
ATOM	755	HG22		51	-8.092	6.394 -25.053		
ATOM	756			51	-8.588	7.280 -23.611	1.00	1.07
MOTA	757		THR	51	-7.024	5.969 -22.001	1.00	1.13
ATOM	758		THR	51	-7.553	6.139 -20.920	1.00	0.23
MOTA	759		ARG	52	-6.054	6.740 -22.411		0.29
ATOM	760		ARG	52	-5.645	6.583 -23.287	1.00	0.32
ATOM	761		ARG	52	-5.566	7.861 -21.556		0.32
ATOM	762		ARG	52	-5.591	7.563 -20.518		0.27
MOTA	763		ARG	52	-4.128	8.201 -21.955	1.00	0.35
ATOM	764	_	ARG	52	-4.125	8.654 -22.935		0.35
ATOM	765		ARG	52	-3.539	7.295 -21.977		0.38
MOTA	766		ARG	52	-3.521	9.177 -20.945		0.39
ATOM	767		ARG	52	-3.645	8.787 -19.946		0.71
MOTA	768		ARG	52	-4.017	10.134 -21.025	1.00	0.57
ATOM	769		ARG	52	-2.030	9.345 -21.244		0.79
MOTA	770		ARG	52	-1.825	9.001 -22.248	1.00	1.45
ATOM	771		ARG	52	-1.453	8.763 -20.543	1.00	1.39
ATOM	772		ARG	52	-1.656	10.782 -21.120	1.00	1.47
ATOM	773	HE	ARG	52	-2.354	11.468 -21.073		2.06
ATOM	774	CZ	ARG	52	-0.398	11.127 -21.071		
MOTA	775		ARG	52	-0.070	12.385 -20.960	1.00	3.05
MOTA		HH11	ARG	52	-0.782	13.084 -20.911		3.45
MOTA		HH12		52	0.894	12.649 -20.923		3.60
ATOM	778		ARG	52	0.532	10.213 -21.138		2.31
MOTA	779	HH21		52	0.281	9.249 -21.226		2.16
MOTA		HH22		52	1.496	10.477 -21.102	1.00	3.05
MOTA	781	C	ARG	52	-6.460	9.090 -21.758	1.00	0.29
MOTA	782	0	ARG	52	-6.719	9.495 -22.875	1.00	0.33
MOTA	783	N	LEU	53	-6.928	9.689 -20.689	1.00	
MOTA	784	HN	LEU	53	-6.702	9.345 -19.798	1.00	0.26 0.25
MOTA	785		LEU	53	-7.803	10.896 -20.822		0.29
MOTA	786	· HA	LEU	53	-8.167	10.972 -21.835		0.32
MOTA	787	CB	LEU	53	-8.992	10.784 -19.862		0.28
MOTA	788	HB1	LEU	53	-9.579	11.688 -19.908		0.31
MOTA	789	HB2	LEU	53	-8.624	10.648 -18.855	1.00	0.28
MOTA	790	CG	LEU	53	-9.866	9.587 -20.249	1.00	0.28
MOTA	791	HG	LEU	53	-9.264	8.690 -20.246		0.29
MOTA	792	CD1	LEU	53	-10.999	9.440 -19.232		0.29
ATOM	793	HD11	LEU	53	-11.606	8.585 -19.487	1.00	0.95
MOTA	794	HD12	LEU	53	-11.610	10.331 -19.243		1.05
MOTA	795	HD13	LEU	53	-10.581	9.303 -18.247	1.00	1.07
ATOM	796	CD2	LEU	53	-10.463	9.799 -21.646	1.00	
MOTA		HD21	LEU	53	-10.523	10.856 -21.860		1.01
ATOM	798	HD22		53	-11.453	9.370 -21.685		1.09
MOTA	799		LEU	53	-9.835	9.319 -22.382	1.00	1.14
MOTA	800	C	LEU	53	-7.000	12.154 -20.483	1.00	0.33
MOTA	801	ŏ	LEU	53	-6.315	12.218 -19.482	1.00	0.34
MOTA	802		HIS	54	-7.080	13.154 -21.319	1.00	0.41
MOTA	803	HN	HIS	54	-7.637	13.075 -22.121	1.00	0.45
MOTA	804	CA	HIS	54	-6.324	14.413 -21.062	1.00	0.45
MOTA	805	HA	HIS	54	-5.292	14.183 -20.851	1.00	
ATOM	806	СВ	HIS	54	-6.407	15.314 -22.297		0.54
ATOM	807		HIS	54	-6.018	16.291 -22.052	1.00	0.60
MOTA	808		HIS	54	-7.438	15.407 -22.603	1.00	0.64
MOTA	809		HIS	54	-5.602	14.726 -23.426	1.00	0.61 0.74
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ATOM	810	NTO1	HIS	54	-5.645	15.254 -24.707	1 00	1 25
MOTA	811		HIS	54	-6.172	16.028 -24.996	1.00	1.35
MOTA	812		HIS	54	-4.740		1.00	1.86
ATOM	813		HIS		-4.480		1.00	0.86
ATOM	814		HIS	54		13.010 -22.668	1.00	1.34
ATOM	815		HIS	54	-4.834 -4.670	14.512 -25.481	1.00	1.33
MOTA	816		HIS	54		14.692 -26.533	1.00	1.83
				54	-4.257	13.525 -24.792	1.00	0.92
MOTA	817	C	HIS	54	-6.933	15.154 -19.867	1.00	0.43
MOTA	818	0	HIS	54	-6.230	15.714 -19.051	1.00	0.49
MOTA	819	N	ASP	55	-8.236	15.172 -19.767	1.00	0.42
ATOM	820	HN	ASP	55	-8.784	14.719 -20.442	1.00	0.45
ATOM	821	CA	ASP	55	-8.892	15.892 -18.635	1.00	0.49
MOTA	822	HA	ASP	55	-8.217	15.938 -17.796	1.00	0.54
MOTA	823	CB	ASP	, 55 55	-9.251	17.314 -19.073	1.00	0.65
ATOM	824 825	HB1	ASP	55	-9.876	17.774 -18.323	1.00	0.75
		HB2	ASP	55	-9.783	17.277 -20.013	1.00	0.68
MOTA MOTA	826	CG	ASP	55	-7.974	18.140 -19.244	1.00	0.71
	827	OD1	ASP	55	-7.978	19.037 -20.071	1.00	1.19
MOTA	828		ASP	55	-7.018	17.870 -18.536	1.00	1.28
MOTA	829	C	ASP	55	-10.167	15.156 -18.223	1.00	0.45
ATOM	830	0	ASP	55	-10.638	14.273 -18.912	1.00	0.44
MOTA	831	N	GLY	56	-10.728	15.518 -17.100	1.00	0.46
MOTA	832	HN	GLY	56	-10.328	16.233 -16.563	1.00	0.50
MOTA	833	CA	GLY	56	-11.975		1.00	0.44
MOTA	834	HA1	GLY	56	-12.482	14.399 -17.472	1.00	0.44
ATOM	835	HA2	GLY	56	-12.622	15.579 -16.169	1.00	0.48
ATOM '		C	GLY	56	-11.624	13.760 -15.614	1.00	0.40
MOTA	837	0	GLY	56	-10.473	13.543 -15.294	1.00	0.42
MOTA	838	N	ILE	57	-12.613	13.078 -15.105	1.00	0.37
MOTA	839	HN	ILE	57	-13.533	13.275 -15.380	1.00	0.39
MOTA	840	CA	ILE	57	-12.352	12.002 -14.106	1.00	0.35
MOTA MOTA	841	HA	ILE	57	-11.406	12.184 -13.616	1.00	0.38
MOTA	842 843	CB	ILE	57 .	-13.473	12.000 -13.064	1.00	0.41
MOTA	844	HB	ILE	57 52	-14.415	11.820 -13.561	1.00	0.42
MOTA	845	CG1 HG11	ILE	57 52	-13.508	13.363 -12.360	1.00	0.48
ATOM	846	HG12	ILE	57 .	-13.512	14.148 -13.101	1.00	0.48
MOTA	847	CG2	ILE	57 57	-12.631	13.465 -11.737	1.00	0.51
ATOM	848	HG21	ILE	57 57	-13.216 -13.315	10.896 -12.037	1.00	0.44
ATOM	849	HG22	ILE	57	-13.315	9.932 -12.513 10.977 -11.235	1.00	1.19
ATOM	850		ILE	- 57	-12.218	11.000 -11.639	1.00	1.09
ATOM	851	CD1	ILE	57	-14.765	13.484 -11.488	1.00	1.04
ATOM	852	HD11	ILE	57	-15.459	12.693 -11.728	1.00	0.56
ATOM	853	HD12	ILE	57	-15.235	14.439 -11.668	1.00	1.08 1.24
ATOM	854	HD13	ILE	57	-14.487	13.413 -10.447	1.00	1.14
MOTA	855	C	ILE	57	-12.307	10.647 -14.817	1.00	0.30
MOTA	856	Ŏ	ILE	57	-13.139	10.353 -15.653	1.00	0.31
MOTA	857	N	ALA	58	-11.337	9.828 -14.493	1.00	0.26
ATOM	858	HN	ALA	58	-10.679	10.096 -13.817	1.00	0.27
MOTA	859	CA	ALA	58	-11.221	8.489 -15.148	1.00	0.23
ATOM	860	HA	ALA	58	-11.957	8.398 -15.932	1.00	0.25
MOTA	861	CB	ALA	58	-9.824	8.339 -15.749	1.00	0.23
ATOM	862	HB1	ALA	58	-9.843	7.585 -16.522	1.00	0.97
MOTA	863	HB2	ALA	58	-9.129	8.044 -14.976	1.00	1.11
MOTA	864	HB3	ALA	58	-9.513	9.280 -16.172	1.00	1.03
MOTA	865	C ·	ALA	58	-11.443	7.387 -14.114	1.00	0.23
MOTA	866	0	ALA	58	-11.389	7.617 -12.922	1.00	0.27
MOTA	867	N	ASP	59	-11.701	6.189 -14.564	1.00	0.25
MOTA	868	HN	ASP	59	-11.744	6.028 -15.530	1.00	0.28
MOTA	869	CA	ASP	59	-11.934	5.069 -13.613	1.00	0.27
MOTA	870	HA	ASP	59	-12.788	5.296 -12.991	1.00	0.34
MOTA	871	CB	ASP	59	-12.207	3.785 -14.400	1.00	0.33
ATOM	872	HB1	ASP	59	-12.203	2.942 -13.725	1.00	0.34
MOTA	873		ASP	59	-11.438	3.651 -15.147	1.00	0.32
MOTA	874	CG	ASP	59	-13.572	3.880 -15.084	1.00	0.44
MOTA	875		ASP	59	-13.791	3.139 -16.028	1.00	1.20
ATOM	876		ASP	59	-14.374	4.691 -14.653	1.00	1.14
ATOM	877	C	ASP	59	-10.700	4.863 -12.731	1.00	0.22
ATOM	878	0	ASP	59	-10.806	4.767 -11.524	1.00	0.27
MOTA	879	N	ILE	60	-9.534	4.780 -13.326	1.00	0.18
MOTA	880	HN	ILE	60	-9.478	4.850 -14.302	1.00	0.20
ATOM	881	CA	ILE	60	-8.291	4.561 -12.523	1.00	0.22
ATOM	882	HA	ILE	60	-8.554	4.303 -11.512	1.00	0.28
MOTA	883	CB	ILE	60	-7.502	3.404 -13.155	1.00	0.27
MOTA	884	HB	ILE	60	-7.255	3.655 -14.175	1.00	0.28
ATOM	885	CG1	ILE	60	-8.377	2.146 -13.136	1.00	0.30

ATOM	887	HG12	ILE	60	-8.541	1.839	-12.113	1.00	0.36
MOTA	888	CG2	ILE	60	-6.210	3.127	-12.369	1.00	0.39
MOTA		HG21	ILE	60	-6.456	2 704	-11.409	1.00	
						4.043	-11.409		1.05
MOTA		HG22	ILE	60	-5.658	4.043	-12.228	1.00	1.10
MOTA		HG23	ILE	60	-5.600	2.428	-12.921	1.00	1.12
MOTA	892	CD1	ILE	60	-7.688	1.015	-13.904	1.00	0.38
MOTA	893	HD11	ILE	60	-7.209		-14.786	1.00	1.07
MOTA		HD12	ILE	60	-8.424		-14.196		1.14
								1.00	
MOTA	895		ILE	60	-6.948		-13.270	1.00	1.04
MOTA	896	C	ILE	60	-7.438	5.834	-12.518	1.00	0.20
MOTA	897	0	ILE	60	-6.731	6.115	-13.464	1.00	0.25
ATOM	898	_	MET	61	-7.473		-11.448	1.00	0.20
ATOM	899			61	-8.033		-10.687		
			MET			0.320	-10.007	1.00	0.25
MOTA	900		MET	61	-6.641	7.822	-11.373	1.00	0.20
MOTA	901	HA	MET	61	-6.327	8.102	-12.366	1.00	0.19
MOTA	902	CB	MET	61	-7.464	8.963	-10.773	1.00	0.24
MOTA	903	HB1	MET	61	-8.331		-11.392	1.00	0.35
ATOM	904		MET	61	-6.860	0 056	-10.743		0.33
								1.00	
MOTA	905		MET	61	-7.918	8.604	-9.358	1.00	0.31
MOTA	906		MET	61	-7.146	8.870	-8.653	1.00	0.66
MOTA	907	HG2	MET	61	-8.112	7.544	-9.300	1.00	0.67
MOTA	908	SD	MET	61	-9.433	9.519	-8.967	1.00	0.54
ATOM	909		MET	61	-8.878	11.154	-9.516	1.00	0.40
MOTA	910								
			MET	61	-9.492	11.914	-9.056	1.00	1.06
MOTA	911		MET	61	-8.968		-10.589	1.00	1.16
MOTA	912	HE3	MET	61	-7.846	11.298	-9.232	1.00	1.12
ATOM	913	C	MET	61	-5.396		-10.524	1.00	0.20
ATOM	914		MET	61	-5.478	6.951	-9.463	1.00	0.22
ATOM	915			62			11 001		
			ILE		-4.241	7.937	-11.001	1.00	0.20
MOTA	916		ILE	62	-4.207		-11.868	1.00	0.21
MOTA	917	CA	ILE	62	-2.971	7.678	-10.252	1.00	0.21
MOTA	918	HA	ILE	62	-3.156	6.982	-9.448	1.00	0.20
ATOM	919	CB	ILE	62	-1.938	7.080	-11.211	1.00	0.24
ATOM	920		ILE	62	-1.753		-12.012	1.00	0.26
MOTA	921			62	-2.480		-11.785		
		HG11						1.00	0.23
MOTA				62	-3.479	5.922	-12.162	1.00	0.20
MOTA	923			62	-2.508		-11.003	1.00	0.24
MOTA	924		ILE	62	-0.635		-10.455	1.00	0.30
MOTA	925	HG21	ILE	62	-0.863	6.443	-9.466	1.00	1.08
ATOM	926	HG22	ILE	62	-0.070		-10.375	1.00	1.12
MOTA	927			62	-0.052		-10.988	1.00	0.99
ATOM	928		ILE	62	-1.584		-12.927	1.00	0.29
ATOM		HD11		. 62					
					-0.979		-13.305	1.00	1.02
MOTA		HD12		62	-2.201		-13.724	1.00	1.09
MOTA		HD13		62	-0.941		-12.559	1.00	1.07
MOTA	932		ILE	62	-2.423	8.988	-9.677	1.00	0.22
MOTA	933	0	ILE	62	-2.393	10.004	-10.343	1.00	0.27
MOTA	934	N	SER	63	-1.993	8.976	-8.441	1.00	0.20
MOTA	935		SER	63	-2.028	8.147	-7.916	1.00	0.18
MOTA	936		SER	63					
					-1.452	10.226	-7.829	1.00	0.22
MOTA	937		SER	63	-0.998	10.836	-8.597	1.00	0.26
MOTA	938		SER	63	-2.597	11.000	-7.176	1.00	0.24
MOTA	939	HB1	SER	63	-3.448	11.012	-7.845	1.00	0.25
MOTA	940			63	-2.286	12.012	-6.978	1.00	0.29
ATOM	941		SER	63	-2.951	10.369	-5.952	1.00	0.25
MOTA	942					9.772			
			SER	63	-3.682		-6.127	1.00	0.85
MOTA	943		SER	63	-0.404	9.879	-6.764	1.00	0.21
ATOM	944	. 0	SER	63	-0.364	8.775	-6.259	1.00	0.20
MOTA	945	N	PHE	64	0.440	10.823	-6.419	1.00	0.24
ATOM	946	HN	PHE	64	0.380	11.705	-6.841	1.00	
MOTA	947		PHE		1.490	10.569	-5.382	1.00	0.24
ATOM	948								
			PHE	64	1.560	9.511	-5.179	1.00	0.22
MOTA	949		PHE	64	2.840	11.084	-5.895	1.00	0.28
ATOM	950		PHE	64	3.564	11.047	-5.097	1.00	0.32
MOTA	951		PHE	64	2.730	12.103	-6.235	1.00	0.32
MOTA	952		PHE	64	3.316	10.220	-7.040	1.00	0.28
MOTA	953		PHE	- 64	4.112	9.096	-6.788	1.00	0.30
ATOM	954		PHE	64	4.385				0.32
ATOM	955					8.844	-5.774	1.00	
			PHE	64	2.963	10.545	-8.355	1.00	0.33
ATOM	956		PHE	64	2.350	11.412	-8.550	1.00	0.37
MOTA	957		PHE	64	4.553	8.297	-7.850	1.00	0.36
ATOM	958	HE1	PHE	64	5.166	7.430	-7.656	1.00	0.40
MOTA	959		PHE	64	3.403	9.747	-9.417	1.00	0.40
ATOM	960			64	3.130		-10.431	1.00	0.47
ATOM	961		PHE	64	4.198				
ATOM	962					8.623	-9.165	1.00	0.40
			PHE	64	4.538	8.007	-9.984	1.00	0.47
MOTA	963	С	PHE	64	1.115	11.318	-4.097	1.00	0.27

ATOM.	964	0	PHE	64	0.924	12.518	-4.108	1.00	0.36
	965	Ŋ							_
MOTA			GLY	65	0.996	10.617	-2.996	1.00	0.30
MOTA	966	HN	GLY	65	1.146	9.649	-3.017	1.00	0.33
MOTA	967	·CA	GLY	65	0.615	11.282	-1.709	1.00	0.38
ATOM	968	HA1	GLY	65	-0.152	10.697	-1.224	1.00	0.46
MOTA	969	HA2	GLY	65	0.230	12.270	-1.913	1.00	0.45
MOTA	970	C	GLY	65	1.823	11.397	-0.770	1.00	0.32
ATOM	971	ŏ	GLY	65	2.926	11.007		1.00	0.40
							-1.098		
MOTA	972	N	ILE	66	1.598	11.926	0.408	1.00	0.30
, , MOTA	973	HN	ILE	66	0.691	12.220	0.635	1.00	0.36
MOTA	974	CA	ILE	66	2.691	12.081	1.417	1.00	0.36
ATOM	975	HA	ILE	66	3.564	11.534	1.093	1.00	0.40
MOTA	976	CB	ILE	66	3.040	13.564	1.571	1.00	0.41
ATOM	977	HB	ILE	66	2.127	14.134	1.656	1.00	0.64
	978	CG1	ILE	66					
MOTA					3.829	14.026	0.337	1.00	0.68
ATOM	979	HG11	ILE	66	3.301	13.729	-0.557	1.00	0.95
MOTA	980	HG12	ILE	66	4.804	13.561	0.346	1.00	1.01
ATOM	981	CG2	ILE	66	3.886	13.764	2.831	1.00	0.93
MOTA	982	HG21	ILE	66	4.372	14.727	2.790	1.00	1.50
MOTA	983	HG22	ILE	66	4.632	12.986	2.891	1.00	1.41
MOTA	984	HG23	ILE	66	3.249	13.720	3.702		
								1.00	1.54
ATOM	985		ILE	66	3.997	15.551	0.343	1.00	0.70
MOTA			ILE	66	4.944	15.806	0.797	1.00	1.22
MOTA	987	HD12	ILE	66	3.196	16.009	0.902	1.00	1.28
MOTA	988	HD13	ILE	66	3.979	15.917	-0.673	1.00	1.23
ATOM	989	C	ILE	66	2.207	11.519	2.760	1.00	0.46
ATOM	990	ŏ	ILE	66	1.021	11.363	2.958	1.00	
	991								0.54
MOTA		N	LYS	67	3.129	11.205	3.659	1.00	0.59
MOTA	992	HN	LYS	67	4.073	11.343	3.434	1.00	0.64
MOTA	993	CA	LYS	67	2.780	10.630	5.014	1.00	0.74
MOTA	994	HA	LYS	67	3.072	9.594	5.038	1.00	0.83
ATOM	995	CB	LYS	67	3.550	11.404	6.102	1.00	0.90
ATOM	996		LYS	67	3.237	12.438	6.089	1.00	0.89
MOTA	997	HB2							
				67 ·	4.608	11.352	5.891	1.00	0.96
ATOM	998	CG	LYS	67	3.287	10.815	7.504	1.00	1.08
MOTA	999		LYS	67	2.254	10.524	7.598	1.00	1.31
MOTA	1000	HG2	LYS	67	3.510	11.565	8.249	1.00	1.33
ATOM	1001	CD	LYS	· 67	4.179	9.590	7.746	1.00	0.98
ATOM	1002		LYS	67	5.216	9.885	7.694	1.00	1.07
ATOM	1003		LYS	67					
					3.979	8.839	6.999	1.00	1.07
ATOM	1004	CE	LYS	67	3.885	9.016	9.135	1.00	1.17
ATOM	1005		LYS	67	4.331	8.036	9.220	1.00	1.64
MOTA	1006	HE2	LYS	67	2.817	8.938	9.272	1.00	1.50
MOTA	1007	NZ	LYS	67	4.453	9.913	10.180	1.00	1.93
ATOM	1008		LYS	67	4.569	10.870	9.792	1.00	2.38
MOTA	1009	HZ2	LYS	67	5.378	9.547			
ATOM	1010						10.485	1.00	2.43
			LYS	67	3.808	9.948	10.995	1.00	2.40
ATOM	1011	C	LYS	67	1.274	10.732	5.280	1.00	0.72
MOTA	1012	0	LYS	67	0.530	9.804	5.035	1.00	0.79
ATOM	1013	N	GLU	68	0.815	11.855	5.760	1.00	0.77
ATOM	1014	HN	GLU	68	1.425	12.601	5.939	1.00	0.84
ATOM	1015	CA	GLU	68	-0.645	12.004			
ATOM	1016	HA	GLU	68	-1.014		6.011	1.00	0.84
MOTA	1017					11.130	6.530	1.00	0.99
		CB	GLU	68	-0.895	13.254	6.860	1.00	1.05
MOTA	1018		GLU	68	-0.393	13.149	7.810	1.00	1.23
MOTA	1019		GLU	68 .	-1.956	13.370	7.024	1.00	1.10
ATOM	1020	CG	GLU	68	-0.353	14.487	6.134	1.00	1.15
ATOM	1021	HG1	GLU	68	-1.000	14.730	5.304	1.00	1.32
MOTA	1022		GLU	68	0.642	14.281	5.768	1.00	1 20
ATOM	1023	CD	GLU	68	-0.308				1.28
ATOM	1024		GLU			15.669	7.104	1.00	1.75
				68	0.246	16.692	6.736	1.00	2.45
MOTA	1025		GLU	68	-0.823	15.530	8.202	1.00	2.16
MOTA	1026	С	GLU	68	-1.346	12.132	4.660	1.00	0.76
MOTA	1027	0	GLU	68	-0.899	12.859	3.795	1.00	1.11
ATOM	1028	N	HIS	69	-2.420	11.414	4.454	1.00	0.94
ATOM	1029	HN	HIS	69	-2.755	10.815	E 455		
ATOM	1030						5.155	1.00	1.32
		CA	HIS	69	-3.114	11.487	3.136	1.00	1.04
ATOM	1031	HA	HIS	69	-2.877	12.437	2.679	1.00	1.25
MOTA	1032	CB	HIS	69	-2.545	10.358	2.243	1.00	1.49
ATOM	1033		HIS	69	-1.750	9.862	2.783	1.00	2.12
MOTA	1034		HIS	69	-2.131	10.798	1.351	1.00	2.27
MOTA	1035	CG	HIS	69	-3.570				
ATOM	1036		HIS			9.333	1.837	1.00	0.95
ATOM	1037			69	-3.818	8.195	2.588	1.00	1.43
			HIS	69	-3.415	7.972	3.453	1.00	1.83
ATOM	1038		HIS	69	-4.355	9.223	0.717	1.00	1.04
MOTA	1039		HIS	69	-4.403	9.946	-0.082	1.00	1.41
MOTA	1040		HIS	69	-4.715	7.452	1.912	1.00	1.81
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ATOM 1041 HEI HIS 69 -5.075 6.502 2.257 1.00 2.54 ATOM 1043 C HIS 69 -5.075 8.032 0.765 1.00 1.14 ATOM 1044 O HIS 69 -4.643 11.435 3.341 1.00 1.14 ATOM 1045 N GLY 70 -5.108 12.065 4.393 1.00 1.49 ATOM 1046 HN GLY 70 -5.108 12.065 4.393 1.00 1.49 ATOM 1046 HN GLY 70 -6.576 12.123 4.665 1.00 1.86 ATOM 1046 HN GLY 70 -6.576 12.123 4.665 1.00 1.86 ATOM 1046 HN GLY 70 -6.576 12.123 4.665 1.00 1.86 ATOM 1048 HAI GLY 70 -6.576 12.123 4.665 1.00 1.86 ATOM 1048 HAI GLY 70 -6.576 12.123 4.665 1.00 2.03 ATOM 1048 HAI GLY 70 -6.576 12.123 4.665 1.00 2.03 ATOM 1048 HAI GLY 70 -6.576 12.123 4.665 1.00 2.03 ATOM 1051 C GLY 70 -6.576 12.123 4.665 1.00 2.03 ATOM 1052 N ASP 71 -6.518 10.76 4.400 1.00 1.81 ATOM 1052 N ASP 71 -6.518 10.127 5.99 1.00 1.66 ATOM 1055 HA ASP 71 -6.653 6.518 4.313 1.00 1.05 ATOM 1056 CB ASP 71 -7.047 4.844 5.701 1.00 1.91 ATOM 1058 HB2 ASP 71 -6.623 6.578 4.813 1.00 2.03 ATOM 1058 HB2 ASP 71 -6.623 6.578 4.813 1.00 2.67 ATOM 1050 CG ASP 71 -7.397 7.892 3.030 1.00 3.56 ATOM 1061 CD2 ASP 71 -6.623 6.578 4.813 1.00 3.56 ATOM 1061 CD2 ASP 71 -6.566 7.620 4.546 1.00 2.67 ATOM 1061 CD2 ASP 71 -6.563 6.578 4.813 1.00 3.56 ATOM 1061 CD2 ASP 71 -6.623 6.578 4.813 1.00 3.56 ATOM 1060 CD ASP 71 -7.977 7.889 7.028 1.00 4.16 ATOM 1060 CD ASP 71 -6.560 6.64 2.665 1.00 4.16 ATOM 1060 CD ASP 71 -6.560 6.64 2.665 1.00 4.16 ATOM 1061 CD2 ASP 71 -6.560 6.64 2.665 1.00 4.16 ATOM 1066 CA PHE 72 -6.504 7.007 9.473 1.00 1.46 ATOM 1066 CA PHE 72 -6.504 7.007 9.473 1.00 1.46 ATOM 1066 CA PHE 72 -6.504 7.007 9.473 1.00 1.46 ATOM 1066 CA PHE 72 -6.504 7.007 9.473 1.00 1.46 ATOM 1067 HA PHE 72 -7.506 6.866 7.018 1.00 1.46 ATOM 1068 CB PHE 72 -7.506 6.866 7.018 1.00 1.46 ATOM 1069 HBI PHE 72 -7.506 6.866 7.018 1.00 1.46 ATOM 1061 CD2 ASP 71 -6.566 6.866 7.018 1.00 1.46 ATOM 1061 CD2 ASP 71 -6.566 6.866 7.018 1.00 1.46 ATOM 1062 C PHE 72 -9.566 6.866 7.018 1.00 1.46 ATOM 1068 CB PHE 72 -9.566 6.866 7.018 1.00 1.46 ATOM 1069 HBI PHE 72 -7.566 6.866 7.018 1.00 1.46 ATOM 1070 HBE PHE 72 -7.566 6.866 7.018 1.00 1.46 ATOM 1070 HBE PHE 7						•				
ATOM 1042 NEZ HISS 69 -5.075 8.032 0.765 1.00 1.53 ATOM 1044 0 HIS 69 -5.032 10.889 2.556 1.00 1.76 ATOM 1045 N GLY 70 -6.108 12.065 4.393 1.00 1.76 ATOM 1046 HN GLY 70 -6.576 12.03 4.990 1.00 1.86 ATOM 1046 HN GLY 70 -6.576 12.133 4.691 1.00 1.86 ATOM 1048 HA1 GLY 70 -6.576 12.133 4.691 1.00 1.86 ATOM 1048 HA1 GLY 70 -7.071 12.633 3.852 1.00 2.28 ATOM 1050 C GLY 70 -7.071 12.633 3.852 1.00 2.28 ATOM 1050 C GLY 70 -7.155 10.716 4.801 1.00 1.81 ATOM 1051 O GLY 70 -7.155 10.716 4.801 1.00 1.81 ATOM 1051 O GLY 70 -7.155 10.716 4.801 1.00 1.81 ATOM 1053 RN ASP 71 -6.513 9.863 5.545 1.00 1.55 ATOM 1053 RN ASP 71 -6.566 1.127 5.999 1.00 1.66 ATOM 1055 C A ASP 71 -6.566 1.027 5.999 1.00 1.66 ATOM 1055 C A ASP 71 -6.666 7.670 4.841 1.00 2.42 ATOM 1055 C A ASP 71 -6.666 7.670 4.841 1.00 2.42 ATOM 1055 C A ASP 71 -6.666 7.670 4.841 1.00 2.42 ATOM 1058 HB2 ASP 71 -6.666 7.670 4.841 1.00 2.42 ATOM 1059 C C ASP 71 -5.544 7.894 4.844 5.701 1.00 1.91 ATOM 1050 C C ASP 71 -7.397 7.892 3.003 1.00 2.48 ATOM 1061 C D ASP 71 -7.397 7.892 3.003 1.00 2.48 ATOM 1062 C ASP 71 -7.397 7.892 3.003 1.00 2.40 ATOM 1063 O ASP 71 -6.677 7.899 7.00 4.04 ATOM 1065 N HB2 ASP 71 -7.397 7.892 3.003 1.00 2.43 ATOM 1066 C C ASP 71 -5.544 7.899 7.028 1.00 4.08 ATOM 1066 C C ASP 71 -7.397 7.892 3.003 1.00 2.43 ATOM 1066 C C ASP 71 -7.397 7.892 1.00 4.08 ATOM 1065 N PHE 72 -7.260 6.886 7.078 1.00 1.76 ATOM 1066 C C ASP 71 -5.500 8.323 7.605 1.00 4.08 ATOM 1067 NA PHE 72 -7.260 6.886 7.078 1.00 1.76 ATOM 1068 C C ASP 71 -5.500 7.399 1.00 2.01 ATOM 1065 NN PHE 72 -7.260 6.886 7.078 1.00 1.76 ATOM 1066 C C ASP 71 -5.500 8.323 7.605 1.00 4.08 ATOM 1067 NA PHE 72 -7.260 6.886 7.078 1.00 1.76 ATOM 1068 C C ASP 71 -5.500 8.323 7.605 1.00 4.08 ATOM 1068 C C ASP 71 -7.397 7.899 7.00 2.01 ATOM 1069 HB1 PHE 72 -7.260 6.886 7.507 1.00 1.36 ATOM 1060 C C ASP 71 -6.577 7.899 7.00 1.00 1.76 ATOM 1060 C C ASP 71 -6.577 7.899 7.00 1.00 1.76 ATOM 1070 C C C ASP 71 -6.577 7.899 7.00 1.00 1.76 ATOM 1070 C C C ASP 71 -6.577 7.789 7.00 1.00 1.76 ATOM 1070 C C C ASP 71 -6.5	MOTA	1041	HE1	HIS	69	-5.097	6.502	2.257	1.:00	2 54
ATOM 1044 C HIS 69 -4.643 11.435 3.341 1.00 1.76 ATOM 1045 N GLY 70 -5.108 12.065 4.391 1.00 1.76 ATOM 1045 N GLY 70 -5.108 12.065 4.391 1.00 1.98 ATOM 1046 HN GLY 70 -6.576 12.123 4.665 1.00 1.98 ATOM 1047 CA GLY 70 -6.576 12.123 4.665 1.00 1.98 ATOM 1048 HAI GLY 70 -6.576 12.123 4.665 1.00 1.86 ATOM 1048 HAI GLY 70 -6.576 12.123 4.665 1.00 1.86 ATOM 1049 HAZ GLY 70 -6.761 12.633 3.852 1.00 2.98 ATOM 1050 C GLY 70 -7.071 12.633 3.852 1.00 2.98 ATOM 1051 O GLY 70 -6.146 12.667 5.583 1.00 2.09 ATOM 1052 N ASP 71 -6.513 9.663 5.545 1.00 1.81 ATOM 1052 N ASP 71 -6.513 9.663 5.545 1.00 1.55 ATOM 1054 HA ASP 71 -5.666 10.127 5.599 1.00 1.65 ATOM 1055 HA ASP 71 -6.623 6.578 4.401 1.00 2.53 ATOM 1055 HA ASP 71 -6.623 6.578 4.401 1.00 2.48 ATOM 1055 O GL ASP 71 -6.546 6.578 4.341 1.00 2.88 ATOM 1059 CG ASP 71 -5.514 7.865 4.341 1.00 2.88 ATOM 1059 CG ASP 71 -5.514 7.865 4.341 1.00 2.88 ATOM 1060 ODI ASP 71 -6.960 8.664 2.465 1.00 1.05 ATOM 1061 ODZ ASP 71 -6.960 8.664 2.465 1.00 4.16 ATOM 1062 C ASP 71 -6.960 8.664 7.030 3.215 1.00 4.08 ATOM 1062 C ASP 71 -6.960 8.664 7.070 1.00 1.36 ATOM 1063 O ASP 71 -6.960 8.864 7.071 1.00 1.36 ATOM 1065 HN PHE 72 -7.260 6.886 7.507 1.00 1.36 ATOM 1065 HN PHE 72 -6.849 6.248 8.786 1.00 1.46 ATOM 1065 HN PHE 72 -6.809 6.323 7.005 1.00 1.67 ATOM 1066 CA PHE 72 -6.809 6.248 8.786 1.00 1.46 ATOM 1067 HB PHE 72 -7.260 6.886 6.7507 1.00 1.36 ATOM 1067 HB PHE 72 -7.260 6.886 6.7507 1.00 1.36 ATOM 1067 HB PHE 72 -7.260 6.886 7.507 1.00 1.36 ATOM 1067 HB PHE 72 -7.260 6.886 7.507 1.00 1.36 ATOM 1067 HB PHE 72 -7.260 6.886 7.507 1.00 1.36 ATOM 1067 HB PHE 72 -7.260 6.886 7.507 1.00 1.36 ATOM 1070 HB PHE 72 -7.260 6.886 7.507 1.00 1.36 ATOM 1070 HB PHE 72 -7.260 6.886 7.507 1.00 1.36 ATOM 1070 HB PHE 72 -7.260 6.886 7.507 1.00 1.36 ATOM 1070 HB PHE 72 -7.260 6.886 7.507 1.00 1.36 ATOM 1070 HB PHE 72 -7.260 6.886 7.507 1.00 1.36 ATOM 1070 HB PHE 72 -7.260 6.886 7.507 1.00 1.36 ATOM 1070 HB PHE 72 -7.260 6.886 7.507 1.00 1.36 ATOM 1080 HB PHE 72 -7.260 6.886 7.507 1.00 1.36 ATOM 1090 HB PHE 72 -	ATOM	1042								
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ATOM 1049 HA1 GLY 70 -7.071 12.633 3.852 1.00 2.09 ATOM 1050 C GLY 70 -6.746 12.667 5.583 1.00 2.09 ATOM 1051 O GLY 70 -7.155 10.716 4.801 1.00 1.81 ATOM 1051 O GLY 70 -7.155 10.716 4.801 1.00 1.81 ATOM 1052 N ASP 71 -6.513 9.863 5.545 1.00 1.55 ATOM 1053 HN ASP 71 -6.568 10.127 5.999 1.00 1.56 ATOM 1055 HA ASP 71 -6.623 9.863 5.545 1.00 1.56 ATOM 1055 HA ASP 71 -7.047 8.484 5.701 1.00 1.91 ATOM 1055 HA ASP 71 -6.623 6.578 4.4813 1.00 2.42 ATOM 1056 CB ASP 71 -6.623 6.578 4.813 1.00 3.03 ATOM 1059 HB1 ASP 71 -6.623 6.578 4.813 1.00 3.03 ATOM 1059 CG ASP 71 -5.544 7.865 4.341 1.00 2.88 ATOM 1059 CG ASP 71 -7.397 7.892 3.303 1.00 3.56 ATOM 1060 ODI ASP 71 -6.960 8.664 2.465 1.00 4.16 ATOM 1061 OD2 ASP 71 -6.960 8.664 2.465 1.00 4.16 ATOM 1062 C ASP 71 -6.960 8.664 2.465 1.00 4.16 ATOM 1063 O ASP 71 -5.608 8.664 2.465 1.00 1.78 ATOM 1065 HN PHE 72 -7.260 6.886 7.507 1.00 1.36 ATOM 1065 HN PHE 72 -7.260 6.886 7.507 1.00 1.36 ATOM 1065 HN PHE 72 -8.038 6.546 7.001 1.00 1.78 ATOM 1066 CA PHE 72 -6.849 6.248 8.786 1.00 1.78 ATOM 1067 HA PHE 72 -6.809 6.248 8.786 1.00 1.78 ATOM 1068 CB PHE 72 -8.031 5.503 9.399 1.00 2.01 ATOM 1068 CB PHE 72 -8.034 6.504 8.355 1.00 2.01 ATOM 1070 HB2 PHE 72 -8.037 5.503 9.399 1.00 2.01 ATOM 1070 HB2 PHE 72 -9.414 4.243 7.704 1.00 2.58 ATOM 1071 CG PHE 72 -9.414 6.288 10.391 1.00 2.34 ATOM 1073 HD1 PHE 72 -9.414 4.243 7.704 1.00 2.86 ATOM 1075 HB2 PHE 72 -9.504 6.568 8.591 1.00 3.78 ATOM 1075 HB2 PHE 72 -9.534 6.569 8.591 1.00 2.03 ATOM 1079 HB2 PHE 72 -9.534 6.569 8.591 1.00 3.78 ATOM 1079 HB2 PHE 72 -9.534 6.569 8.591 1.00 3.78 ATOM 1079 HB2 PHE 72 -7.533 4.503 9.569 1.00 2.43 ATOM 1079 HB2 PHE 72 -7.534 4.503 9.569 1.00 2.43 ATOM 1079 HB2 PHE 72 -7.533 4.503 9.569 1.00 2.43 ATOM 1079 HB2 PHE 72 -7.534 4.503 9.569 1.00 2.43 ATOM 1079 HB2 PHE 72 -7.535 8.669 8.501 1.00 3.78 ATOM 1080 HB1 PHE 72 -7.536 8.660 8.660 8.660 9.501 1.00 3.28 ATOM 1079 HB2 PHE 72 -7.533 4.503 9.569 1.00 2.43 ATOM 1079 HB2 PHE 72 -7.536 8.660 8.660 9.501 1.00 3.24 ATOM 1080 HB1 PHE 72 -7.560 8.660 9.501 0.00 3.5										
ATOM 1050 C GLY 70					-					
ATOM 1051 O GLY 70 -7.155 10.716 4.801 1.00 1.81 ATOM 1051 O GLY 70 -8.182 10.404 4.232 1.00 1.55 ATOM 1053 NN ASP 71 -6.6133 9.863 5.545 1.00 1.55 ATOM 1053 NN ASP 71 -5.686 10.127 5.999 1.00 1.66 ATOM 1055 NA ASP 71 -7.047 8.815 5.694 1.00 1.65 ATOM 1055 NA ASP 71 -7.047 8.8126 8.513 5.684 1.00 2.42 ATOM 1055 NA ASP 71 -6.623 6.578 4.813 1.00 2.42 ATOM 1055 NA ASP 71 -6.623 6.578 4.813 1.00 2.42 ATOM 1057 HB1 ASP 71 -6.623 6.578 4.813 1.00 2.97 ATOM 1059 NB ASP 71 -6.626 6.563 6.578 4.813 1.00 2.98 ATOM 1059 NB ASP 71 -6.626 6.577 7.885 4.341 1.00 2.88 ATOM 1069 NB ASP 71 -5.514 7.865 4.341 1.00 2.88 ATOM 1060 NB ASP 71 -6.656 6.578 4.311 1.00 1.03 ATOM 1061 NB ASP 71 -6.677 7.889 7.028 1.00 1.66 ATOM 1063 NB ASP 71 -6.577 7.889 7.028 1.00 1.46 ATOM 1063 NB ASP 71 -6.577 7.889 7.028 1.00 1.46 ATOM 1064 NB PHE 72 -7.250 0.8.364 7.507 1.00 1.36 ATOM 1065 NB PHE 72 -7.250 0.8.364 7.507 1.00 1.36 ATOM 1066 NB PHE 72 -8.038 6.566 7.018 1.00 1.67 ATOM 1067 NB PHE 72 -6.504 7.007 9.473 1.00 1.58 ATOM 1068 NB PHE 72 -6.504 7.007 9.473 1.00 1.58 ATOM 1069 HB1 PHE 72 -8.037 6.503 9.399 1.00 2.01 ATOM 1070 NB2 PHE 72 -8.037 6.503 9.399 1.00 2.01 ATOM 1070 NB2 PHE 72 -9.151 5.414 8.395 1.00 2.43 ATOM 1070 NB2 PHE 72 -9.154 6.563 8.158 1.00 2.43 ATOM 1070 NB2 PHE 72 -9.154 6.563 8.158 1.00 2.43 ATOM 1075 NB2 PHE 72 -9.584 6.563 8.158 1.00 2.43 ATOM 1070 NB2 PHE 72 -9.594 6.563 8.158 1.00 2.43 ATOM 1070 NB2 PHE 72 -9.595 6.503 9.399 1.00 2.01 ATOM 1070 NB2 PHE 72 -9.595 6.503 9.399 1.00 2.01 ATOM 1070 NB2 PHE 72 -9.595 6.503 9.399 1.00 2.03 ATOM 1070 NB2 PHE 72 -9.154 6.563 8.158 1.00 2.43 ATOM 1070 NB2 PHE 72 -9.154 6.563 8.158 1.00 2.97 ATOM 1070 NB2 PHE 72 -9.154 6.563 8.158 1.00 2.97 ATOM 1070 NB2 PHE 72 -9.154 6.563 8.158 1.00 2.28 ATOM 1070 NB2 CP HE 72 -9.595 6.502 7.285 1.00 2.43 ATOM 1070 NB2 CP HE 72 -9.595 6.502 7.285 1.00 2.43 ATOM 1080 CP HE 72 -9.508 6.506 6.509 1.00 2.43 ATOM 1090 NB1 HZ TYR 73 -5.120 5.531 7.956 1.00 1.28 ATOM 1090 NB1 HZ TYR 73 -5.241 1.559 6.699 1.00 2.28 ATOM 1090 NB1 TYR 73 -5.241 1.559										
ATOM 1051 O GLY 70 -8.182 10.404 4.212 1.00 2.53 ATOM 1052 N ASP 71 -6.513 9.863 5.545 1.00 1.55 ATOM 1054 CA ASP 71 -5.686 10.127 5.999 1.00 1.66 ATOM 1054 CA ASP 71 -7.047 8.484 5.701 1.00 1.95 ATOM 1055 CB ASP 71 -8.126 8.513 5.684 1.00 2.42 ATOM 1056 CB ASP 71 -6.546 7.620 4.546 1.00 2.67 ATOM 1058 HB2 ASP 71 -6.546 7.620 4.546 1.00 2.67 ATOM 1058 HB2 ASP 71 -6.546 7.620 4.546 1.00 2.67 ATOM 1058 HB2 ASP 71 -6.523 6.578 4.813 1.00 3.03 ATOM 1058 HB2 ASP 71 -7.047 7.882 3.003 1.00 3.56 ATOM 1060 OD1 ASP 71 -7.397 7.892 3.003 1.00 3.56 ATOM 1060 OD1 ASP 71 -8.476 7.330 3.215 1.00 4.08 ATOM 1061 OD2 ASP 71 -6.577 7.889 3.003 1.00 3.56 ATOM 1062 C ASP 71 -6.577 7.889 7.028 1.00 1.46 ATOM 1063 O ASP 71 -6.577 7.889 7.028 1.00 1.46 ATOM 1064 N PHE 72 -7.260 6.886 7.507 1.00 1.36 ATOM 1066 KB PHE 72 -7.260 6.886 7.507 1.00 1.36 ATOM 1066 CA PHE 72 -6.849 6.248 8.786 1.00 1.46 ATOM 1066 CA PHE 72 -6.849 6.248 8.786 1.00 1.46 ATOM 1067 HA PHE 72 -6.849 6.248 8.786 1.00 1.46 ATOM 1067 HA PHE 72 -8.037 5.503 9.399 1.00 2.01 ATOM 1069 HB1 PHE 72 -8.037 5.503 9.399 1.00 2.01 ATOM 1070 HB2 PHE 72 -9.161 5.444 8.395 1.00 2.58 ATOM 1070 HB2 PHE 72 -9.161 5.444 8.395 1.00 2.58 ATOM 1071 CG PHE 72 -9.161 5.448 8.395 1.00 2.30 ATOM 1074 CD2 PHE 72 -9.758 7.482 8.691 1.00 2.58 ATOM 1075 HD2 PHE 72 -9.758 7.482 8.691 1.00 2.30 ATOM 1076 CE1 PHE 72 -9.758 7.482 8.691 1.00 2.83 ATOM 1076 CE1 PHE 72 -9.758 6.564 6.201 1.00 3.28 ATOM 1076 CE2 PHE 72 -9.758 6.564 6.201 1.00 3.28 ATOM 1078 CE2 PHE 72 -9.758 6.565 8.158 1.00 2.93 ATOM 1079 CC TTR 73 -5.126 6.509 6.703 1.00 1.46 ATOM 1080 CZ PHE 72 -9.758 7.482 8.691 1.00 2.83 ATOM 1079 HC2 PHE 72 -9.758 7.482 8.691 1.00 2.83 ATOM 1079 HC2 PHE 72 -9.758 6.609 6.703 1.00 1.46 ATOM 1080 CZ PHE 72 -9.758 6.609 6.709 1.00 3.80 ATOM 1079 HC2 PHE 72 -9.758 6.609 6.709 1.00 3.80 ATOM 1079 HC2 PHE 72 -9.758 6.609 6.709 1.00 3.80 ATOM 1079 HC2 PHE 72 -9.758 6.609 6.709 1.00 3.80 ATOM 1079 HC2 PHE 72 -9.758 6.609 6.709 1.00 3.28 ATOM 1080 HB1 TTR 73 -5.412 6.009 6.703 1.00 1.46 ATOM 1087 HA TTR										
ATOM 1053 N ASP 71										
ATOM 1054 CA ASP 71						-8.182	10.404	4.232	1.00	2.53
ATOM 1055 CA ASP 71 -8.126 8.543 5.701 1.00 1.91 ATOM 1055 CB ASP 71 -6.626 8.513 5.684 1.00 2.42 ATOM 1057 HBI ASP 71 -6.623 6.578 4.813 1.00 2.42 ATOM 1059 CG ASP 71 -6.623 6.578 4.813 1.00 3.03 ATOM 1059 CG ASP 71 -5.514 7.865 4.341 1.00 2.88 ATOM 1060 CD1 ASP 71 -7.397 7.885 3.303 1.00 3.56 ATOM 1061 CD2 ASP 71 -6.677 7.895 7.028 1.00 1.66 ATOM 1061 CD2 ASP 71 -6.696 8.664 2.465 1.00 4.16 ATOM 1062 CC ASP 71 -6.577 7.899 7.028 1.00 1.46 ATOM 1063 CO ASP 71 -5.600 8.623 7.605 1.00 1.46 ATOM 1065 NP PHE 72 -7.260 8.624 7.007 1.00 1.36 ATOM 1066 CA PHE 72 -8.038 6.546 7.018 1.00 1.67 ATOM 1066 CA PHE 72 -6.849 6.248 8.786 1.00 1.48 ATOM 1067 HA PHE 72 -6.849 6.248 8.786 1.00 1.48 ATOM 1068 CB PHE 72 -8.038 6.546 7.018 1.00 1.67 ATOM 1069 HBI PHE 72 -7.733 4.503 9.399 1.00 2.01 ATOM 1067 HA PHE 72 -7.733 4.503 9.399 1.00 2.01 ATOM 1070 HB2 PHE 72 -7.733 4.503 9.599 1.00 2.03 ATOM 1070 HB2 PHE 72 -9.9161 5.344 8.395 1.00 2.43 ATOM 1071 CG PHE 72 -9.161 5.344 8.395 1.00 2.30 ATOM 1073 HD1 PHE 72 -9.954 6.553 8.158 1.00 2.97 ATOM 1076 CE1 PHE 72 -9.161 5.344 8.395 1.00 2.30 ATOM 1076 CE1 PHE 72 -9.788 7.482 8.691 1.00 3.28 ATOM 1076 CE1 PHE 72 -9.788 7.482 8.691 1.00 3.28 ATOM 1076 CE1 PHE 72 -9.788 7.482 8.691 1.00 3.28 ATOM 1078 CE2 PHE 72 -10.655 3.264 6.242 1.00 4.66 ATOM 1078 CE2 PHE 72 -10.655 3.264 6.242 1.00 4.64 ATOM 1080 CZ PHE 72 -10.655 3.264 6.242 1.00 4.64 ATOM 1080 CZ PHE 72 -10.655 3.264 6.242 1.00 3.80 ATOM 1079 HE2 PHE 73 -1.605 5.266 8.500 1.00 1.46 ATOM 1080 CZ PTE 77 7.33 3.393 7.790 1.00 3.28 ATOM 1079 HE2 PHE 72 -10.655 3.644 6.242 1.00 3.80 ATOM 1080 CZ PTE 77 7.33 3.393 7.790 1.00 3.80 ATOM 1080 CZ PTE 77 7.35 3.393 9.393 1.00 3.28 ATOM 1080 CZ PTE 77 7.589 7.482 8.691 1.00 3.28 ATOM 1080 CZ PTE 77 7.589 7.482 8.691 1.00 3.28 ATOM 1080 CZ PTE 77 7.589 7.682 8.593 1.00 3.28 ATOM 1080 CZ PTE 77 7.589 7.682 8.593 1.00 3.28 ATOM 1080 CZ PTE 77 7.589 7.682 8.593 1.00 3.28 ATOM 1080 CZ PTE 77 7.589 7.682 8.593 1.00 3.28 ATOM 1080 CZ PTE 77 7.589 7.682 8.593 1.00 3.28 ATOM 1090 HE2 PHE 72 -1.6469	MOTA	1052	N	ASP	71	-6.513	9.863	5.545	1.00	1.55
ATOM 1055 CA ASP 71 -8.126 8.543 5.701 1.00 1.91 ATOM 1055 CB ASP 71 -6.626 8.513 5.684 1.00 2.42 ATOM 1057 HBI ASP 71 -6.623 6.578 4.813 1.00 2.42 ATOM 1059 CG ASP 71 -6.623 6.578 4.813 1.00 3.03 ATOM 1059 CG ASP 71 -5.514 7.865 4.341 1.00 2.88 ATOM 1060 CD1 ASP 71 -7.397 7.885 3.303 1.00 3.56 ATOM 1061 CD2 ASP 71 -6.677 7.895 7.028 1.00 1.66 ATOM 1061 CD2 ASP 71 -6.696 8.664 2.465 1.00 4.16 ATOM 1062 CC ASP 71 -6.577 7.899 7.028 1.00 1.46 ATOM 1063 CO ASP 71 -5.600 8.623 7.605 1.00 1.46 ATOM 1065 NP PHE 72 -7.260 8.624 7.007 1.00 1.36 ATOM 1066 CA PHE 72 -8.038 6.546 7.018 1.00 1.67 ATOM 1066 CA PHE 72 -6.849 6.248 8.786 1.00 1.48 ATOM 1067 HA PHE 72 -6.849 6.248 8.786 1.00 1.48 ATOM 1068 CB PHE 72 -8.038 6.546 7.018 1.00 1.67 ATOM 1069 HBI PHE 72 -7.733 4.503 9.399 1.00 2.01 ATOM 1067 HA PHE 72 -7.733 4.503 9.399 1.00 2.01 ATOM 1070 HB2 PHE 72 -7.733 4.503 9.599 1.00 2.03 ATOM 1070 HB2 PHE 72 -9.9161 5.344 8.395 1.00 2.43 ATOM 1071 CG PHE 72 -9.161 5.344 8.395 1.00 2.30 ATOM 1073 HD1 PHE 72 -9.954 6.553 8.158 1.00 2.97 ATOM 1076 CE1 PHE 72 -9.161 5.344 8.395 1.00 2.30 ATOM 1076 CE1 PHE 72 -9.788 7.482 8.691 1.00 3.28 ATOM 1076 CE1 PHE 72 -9.788 7.482 8.691 1.00 3.28 ATOM 1076 CE1 PHE 72 -9.788 7.482 8.691 1.00 3.28 ATOM 1078 CE2 PHE 72 -10.655 3.264 6.242 1.00 4.66 ATOM 1078 CE2 PHE 72 -10.655 3.264 6.242 1.00 4.64 ATOM 1080 CZ PHE 72 -10.655 3.264 6.242 1.00 4.64 ATOM 1080 CZ PHE 72 -10.655 3.264 6.242 1.00 3.80 ATOM 1079 HE2 PHE 73 -1.605 5.266 8.500 1.00 1.46 ATOM 1080 CZ PTE 77 7.33 3.393 7.790 1.00 3.28 ATOM 1079 HE2 PHE 72 -10.655 3.644 6.242 1.00 3.80 ATOM 1080 CZ PTE 77 7.33 3.393 7.790 1.00 3.80 ATOM 1080 CZ PTE 77 7.35 3.393 9.393 1.00 3.28 ATOM 1080 CZ PTE 77 7.589 7.482 8.691 1.00 3.28 ATOM 1080 CZ PTE 77 7.589 7.482 8.691 1.00 3.28 ATOM 1080 CZ PTE 77 7.589 7.682 8.593 1.00 3.28 ATOM 1080 CZ PTE 77 7.589 7.682 8.593 1.00 3.28 ATOM 1080 CZ PTE 77 7.589 7.682 8.593 1.00 3.28 ATOM 1080 CZ PTE 77 7.589 7.682 8.593 1.00 3.28 ATOM 1080 CZ PTE 77 7.589 7.682 8.593 1.00 3.28 ATOM 1090 HE2 PHE 72 -1.6469	ATOM	1053	HN	ASP	71	-5.686	10.127	. 5.999	1.00	1.66
ATOM 1056 CB ASP 71 -6.546	MOTA	1054	CA	ASP	71	-7.047				
ATOM 1057 HBI ASP 71	MOTA	1055	HA	ASP	71					
ATOM 1058 HB1 ASP 71 -6.623 6.578 4.813 1.00 3.03 ATOM 1058 HB2 ASP 71 -5.514 7.865 4.341 1.00 3.08 ATOM 1058 HB2 ASP 71 -5.514 7.865 4.341 1.00 3.68 ATOM 1050 OD1 ASP 71 -8.476 7.330 3.215 1.00 4.08 ATOM 1061 0D2 ASP 71 -6.960 8.664 2.465 1.00 4.16 ATOM 1061 0D2 ASP 71 -6.960 8.664 2.465 1.00 4.16 ATOM 1063 O ASP 71 -5.600 8.323 7.605 1.00 1.46 ATOM 1063 O ASP 71 -5.600 8.323 7.605 1.00 1.46 ATOM 1063 O ASP 71 -5.600 8.323 7.605 1.00 1.46 ATOM 1065 C ASP 71 -5.600 8.323 7.605 1.00 1.46 ATOM 1065 HN PHE 72 -7.260 6.886 7.507 1.00 1.36 ATOM 1065 CA PHE 72 -6.504 7.007 9.473 1.00 1.57 ATOM 1066 CA PHE 72 -6.849 6.248 8.786 1.00 1.48 ATOM 1067 HA PHE 72 -6.504 7.007 9.473 1.00 1.57 ATOM 1068 CB PHE 72 -8.037 5.503 9.399 1.00 2.01 ATOM 1069 HB1 PHE 72 -8.037 6.028 10.281 1.00 2.58 ATOM 1070 HB2 PHE 72 -9.161 5.434 8.395 1.00 2.30 ATOM 1071 CG PHE 72 -9.161 5.434 8.395 1.00 2.30 ATOM 1072 CD1 PHE 72 -9.161 5.434 8.395 1.00 2.30 ATOM 1073 HD1 PHE 72 -9.954 6.563 8.158 1.00 2.97 ATOM 1075 HD2 PHE 72 -9.954 6.563 8.158 1.00 2.97 ATOM 1075 HD2 PHE 72 -9.954 6.563 8.158 1.00 2.97 ATOM 1075 HD2 PHE 72 -9.954 6.563 8.158 1.00 2.97 ATOM 1076 CEI PHE 72 -10.459 4.182 6.775 1.00 3.28 ATOM 1079 HB2 PHE 72 -10.459 4.182 6.775 1.00 3.28 ATOM 1078 CE2 PHE 72 -10.459 4.182 6.775 1.00 3.28 ATOM 1078 CE2 PHE 72 -10.599 6.502 7.229 1.00 3.80 ATOM 1080 CE2 PHE 72 -10.599 6.502 7.229 1.00 3.80 ATOM 1080 CE2 PHE 72 -10.599 6.502 7.229 1.00 3.80 ATOM 1080 CE2 PHE 72 -10.655 3.264 6.242 1.00 4.66 ATOM 1081 HZ PHE 72 -10.599 6.502 7.229 1.00 3.80 ATOM 1080 CE2 PHE 72 -10.655 3.264 6.609 1.00 4.66 ATOM 1080 CE2 PHE 72 -10.599 6.502 7.229 1.00 3.80 ATOM 1080 CE2 PHE 72 -10.655 3.264 6.609 1.00 1.00 4.80 ATOM 1080 CE2 PHE 72 -10.599 6.502 7.229 1.00 3.80 ATOM 1080 CE2 PHE 72 -10.655 3.264 6.600 1.00 1.40 ATOM 1080 CE2 PHE 72 -10.600 7.374 7.045 1.00 2.85 ATOM 1080 CE2 PHE 72 -10.600 7.374 7.045 1.00 2.85 ATOM 1080 CE2 PHE 72 -10.600 7.374 7.045 1.00 2.85 ATOM 1080 CE2 PHE 72 -10.600 7.374 7.005 1.00 1.00 1.00 4.80 ATOM 1080 CE2 PHE 72 -10.600	ATOM									
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ATOM 1067 HA PHE 72 -6.504 7.007 9.473 1.00 1.75 ATOM 1068 CB PHE 72 -8.037 5.503 9.399 1.00 2.01 ATOM 1069 HB1 PHE 72 -8.037 5.503 9.399 1.00 2.58 ATOM 1070 HB2 PHE 72 -7.733 4.503 9.669 1.00 2.58 ATOM 1071 CG PHE 72 -9.161 5.434 8.395 1.00 2.30 ATOM 1072 CD1 PHE 72 -9.414 4.243 7.704 1.00 2.86 ATOM 1073 HD1 PHE 72 -8.802 3.372 7.887 1.00 3.09 ATOM 1074 CD2 PHE 72 -9.954 6.563 8.158 1.00 2.97 ATOM 1075 HD2 PHE 72 -9.954 6.563 8.158 1.00 2.97 ATOM 1076 CE1 PHE 72 -9.758 7.482 8.691 1.00 3.28 ATOM 1076 CE1 PHE 72 -10.459 4.182 6.775 1.00 3.73 ATOM 1077 HE1 PHE 72 -10.655 3.264 6.242 1.00 4.46 ATOM 1078 CE2 PHE 72 -10.655 3.264 6.242 1.00 4.46 ATOM 1079 HE2 PHE 72 -11.610 7.374 7.045 1.00 4.54 ATOM 1080 CZ PHE 72 -11.610 7.374 7.045 1.00 4.54 ATOM 1081 HZ PHE 72 -11.610 7.374 7.045 1.00 4.54 ATOM 1081 HZ PHE 72 -12.058 5.264 5.821 1.00 4.98 ATOM 1082 C PHE 72 -5.716 5.266 8.500 1.00 1.21 ATOM 1083 O PHE 72 -5.786 5.266 8.500 1.00 1.21 ATOM 1084 N TYR 73 -5.120 5.371 7.338 1.00 1.22 ATOM 1085 HN TYR 73 -5.120 5.371 7.338 1.00 1.24 ATOM 1086 CZ TYR 73 -3.999 4.457 6.972 1.00 1.26 ATOM 1087 HA TYR 73 -3.199 4.457 6.972 1.00 1.26 ATOM 1088 CB TYR 73 -3.391 3.635 5.742 1.00 1.26 ATOM 1089 HB1 TYR 73 -3.331 3.082 5.395 1.00 2.35 ATOM 1090 HB2 TYR 73 -4.391 3.635 5.742 1.00 1.26 ATOM 1090 HB2 TYR 73 -4.252 1.444 7.347 1.00 2.82 ATOM 1090 HB2 TYR 73 -6.264 0.683 7.224 1.00 3.28 ATOM 1091 CG TYR 73 -6.978 3.691 4.901 1.00 2.35 ATOM 1094 CD2 TYR 73 -6.264 0.683 7.224 1.00 3.24 ATOM 1095 HD TYR 73 -6.264 0.683 7.224 1.00 3.24 ATOM 1096 CE1 TYR 73 -6.264 0.683 7.224 1.00 3.28 ATOM 1091 CG TYR 73 -6.264 0.683 7.224 1.00 3.28 ATOM 1094 CD2 TYR 73 -6.264 0.683 7.224 1.00 3.24 ATOM 1096 CE TYR 73 -6.264 0.683 7.224 1.00 3.24 ATOM 1096 CE TYR 73 -6.264 0.683 7.224 1.00 3.24 ATOM 1096 CE TYR 73 -6.264 0.683 7.224 1.00 3.24 ATOM 1097 HE TYR 73 -6.264 0.683 7.224 1.00 3.28 ATOM 1098 HB1 TYR 73 -6.266 0.066 0.105 7.95 1.00 0.95 ATOM 1090 HB2 TYR 73 -6.264 0.689 7.197 1.00 2.28 ATOM 1091 CG TYR 73 -7.545 0.866 6.710 1.00 3.90 ATOM 109		1066	CA	PHE		-6.849`	6.248	8.786	1.00	1.48
ATOM 1069 HBI PHE 72 -8.037 5.503 9.399 1.00 2.01 ATOM 1069 HBI PHE 72 -7.733 4.503 9.669 1.00 2.43 ATOM 1070 HB2 PHE 72 -9.161 5.434 8.395 1.00 2.30 ATOM 1071 CG PHE 72 -9.161 5.434 8.395 1.00 2.30 ATOM 1072 CDI PHE 72 -9.414 4.243 7.704 1.00 2.86 ATOM 1073 HDI PHE 72 -9.8802 3.372 7.887 1.00 3.09 ATOM 1075 HD2 PHE 72 -9.954 6.563 8.158 1.00 2.30 ATOM 1075 HD2 PHE 72 -9.758 7.482 8.691 1.00 3.28 ATOM 1075 HD2 PHE 72 -9.758 7.482 8.691 1.00 3.28 ATOM 1076 CEI PHE 72 -10.459 4.182 6.775 1.00 3.29 ATOM 1076 CEI PHE 72 -10.655 3.264 6.242 1.00 4.46 ATOM 1078 CE2 PHE 72 -10.655 3.264 6.242 1.00 4.46 ATOM 1078 CE2 PHE 72 -10.655 3.264 6.242 1.00 4.46 ATOM 1078 HE2 PHE 72 -10.655 3.264 6.537 1.00 4.58 ATOM 1080 CZ PHE 72 -11.610 7.374 7.045 1.00 4.58 ATOM 1080 CZ PHE 72 -11.650 5.312 6.537 1.00 4.58 ATOM 1081 HZ PHE 72 -12.058 5.264 5.821 1.00 4.28 ATOM 1083 D PHE 72 -5.716 5.266 8.500 1.00 1.41 ATOM 1083 D PHE 72 -5.384 4.430 9.318 1.00 2.20 ATOM 1085 HN TYR 73 -5.120 5.371 7.338 1.00 1.42 ATOM 1086 CA TYR 73 -5.120 5.371 7.338 1.00 1.48 ATOM 1086 CA TYR 73 -5.120 5.371 7.338 1.00 1.48 ATOM 1086 CA TYR 73 -3.999 4.457 6.972 1.00 1.46 ATOM 1087 HA TYR 73 -3.574 3.799 7.790 1.00 1.46 ATOM 1089 HB1 TYR 73 -3.774 3.799 7.790 1.00 1.46 ATOM 1089 HB1 TYR 73 -3.513 3.082 5.395 1.00 2.85 ATOM 1090 HB2 TYR 73 -3.531 3.082 5.395 1.00 2.85 ATOM 1090 HB2 TYR 73 -4.252 1.444 7.347 1.00 2.58 ATOM 1090 HB2 TYR 73 -4.252 1.444 7.347 1.00 2.58 ATOM 1090 HB2 TYR 73 -6.779 2.883 5.553 1.00 3.24 ATOM 1096 CE TYR 73 -6.666 -0.155 7.896 1.00 4.99 ATOM 1097 CE TYR 73 -6.978 3.691 4.901 1.00 3.24 ATOM 1096 CB TYR 73 -6.779 2.885 3.5553 1.00 3.90 ATOM 1097 HE1 TYR 73 -6.264 6.895 7.791 1.00 1.68 ATOM 1097 CE TYR 73 -6.766 6.969 7.059 1.00 0.258 ATOM 1090 HB2 TYR 73 -6.788 2.093 5.452 1.00 1.26 ATOM 1097 HE1 TYR 73 -6.978 3.691 4.901 1.00 2.58 ATOM 1090 HB2 TYR 73 -6.978 3.691 4.901 1.00 3.24 ATOM 1096 CE1 TYR 73 -6.789 9.0590 6.249 1.00 0.258 ATOM 1096 CE1 TYR 73 -6.266 6.385 7.797 1.00 0.82 ATOM 1100 CR TYR 73 -7.545 0.866 6.710 1.00 3.90	MOTA	1067	HA	PHE	72	-6.504	7.007		1.00	
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ATOM 1080 CZ PHE 72 -11.610 7.374 7.045 1.00 4.54 ATOM 1081 HZ PHE 72 -11.252 5.312 6.537 1.00 4.08 ATOM 1081 HZ PHE 72 -12.058 5.264 5.821 1.00 4.92 ATOM 1082 C PHE 72 -5.716 5.266 8.500 1.00 1.41 ATOM 1083 O PHE 72 -5.716 5.266 8.500 1.00 1.41 ATOM 1083 O PHE 72 -5.384 4.430 9.318 1.00 2.20 ATOM 1085 HN TYR 73 -5.120 5.371 7.338 1.00 1.12 ATOM 1085 HN TYR 73 -5.412 6.059 6.703 1.00 1.48 ATOM 1086 CA TYR 73 -3.999 4.457 6.972 1.00 1.25 ATOM 1087 HA TYR 73 -3.774 3.793 7.790 1.00 1.46 ATOM 1088 CB TYR 73 -3.774 3.793 7.790 1.00 1.46 ATOM 1088 CB TYR 73 -4.391 3.635 5.742 1.00 1.86 ATOM 1089 HB1 TYR 73 -3.531 3.082 5.395 1.00 2.35 ATOM 1090 HB2 TYR 73 -4.226 4.300 4.961 1.00 2.46 ATOM 1091 CG TYR 73 -5.241 1.585 6.934 1.00 2.08 ATOM 1093 HD1 TYR 73 -5.241 1.585 6.934 1.00 2.58 ATOM 1093 HD1 TYR 73 -6.274 1.585 6.934 1.00 2.85 ATOM 1094 CD2 TYR 73 -6.779 2.853 5.553 1.00 2.85 ATOM 1095 HD2 TYR 73 -6.264 0.683 7.244 1.00 3.24 ATOM 1096 CE1 TYR 73 -6.264 0.683 7.244 1.00 3.28 ATOM 1097 HE1 TYR 73 -6.264 0.683 7.244 1.00 3.48 ATOM 1097 HE1 TYR 73 -6.264 0.683 7.244 1.00 3.48 ATOM 1097 HE1 TYR 73 -6.264 0.683 7.244 1.00 3.48 ATOM 1097 HE1 TYR 73 -6.264 0.683 7.244 1.00 3.48 ATOM 1097 HE1 TYR 73 -6.264 0.683 7.244 1.00 3.48 ATOM 1097 HE1 TYR 73 -6.264 0.683 7.244 1.00 3.48 ATOM 1096 CE2 TYR 73 -6.264 0.683 7.244 1.00 3.48 ATOM 1096 CE2 TYR 73 -6.264 0.683 7.244 1.00 3.48 ATOM 1097 HE1 TYR 73 -6.264 0.683 7.244 1.00 3.48 ATOM 1096 CE2 TYR 73 -7.580 0.866 6.710 1.00 3.90 ATOM 1101 OH TYR 73 -8.899 0.590 6.249 1.00 4.99 ATOM 1100 CZ TYR 73 -7.545 0.866 6.710 1.00 3.90 ATOM 1101 OH TYR 73 -8.899 0.590 6.249 1.00 4.99 ATOM 1102 HH TYR 73 -8.689 0.590 6.249 1.00 5.22 ATOM 1104 OF TYR 73 -8.689 0.590 6.249 1.00 5.22 ATOM 1105 N PRO 74 -2.273 6.106 6.351 N.00 1.05 ATOM 1108 CB PRO 74 -1.054 6.895 7.197 1.00 0.82 ATOM 1108 CB PRO 74 -1.054 6.895 7.197 1.00 0.82 ATOM 1108 CB PRO 74 -1.054 6.895 7.197 1.00 1.28 ATOM 1109 HB1 PRO 74 -2.273 6.106 6.330 1.00 1.01 1.00 ATOM 11114 HB2 PRO 74 -1.254 7.688 6.331 8.438 1.00 1.01 1.00 AT					72	-10.999	6.502	7.229	1.00	
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ATOM 1085 HN TYR 73										2.20
ATOM 1086 CA TYR 73 -3.999 4.457 6.972 1.00 1.25 ATOM 1087 HA TYR 73 -3.774 3.793 7.790 1.00 1.46 ATOM 1088 CB TYR 73 -4.391 3.635 5.742 1.00 1.86 ATOM 1089 HB1 TYR 73 -3.531 3.082 5.395 1.00 2.35 ATOM 1090 HB2 TYR 73 -4.726 4.300 4.961 1.00 2.46 ATOM 1091 CG TYR 73 -5.498 2.670 6.089 1.00 2.08 ATOM 1092 CD1 TYR 73 -5.498 2.670 6.089 1.00 2.08 ATOM 1093 HD1 TYR 73 -5.241 1.585 6.934 1.00 2.58 ATOM 1094 CD2 TYR 73 -4.252 1.444 7.347 1.00 2.82 ATOM 1095 HD2 TYR 73 -6.978 3.691 4.901 1.00 3.24 ATOM 1096 CE1 TYR 73 -6.978 3.691 4.901 1.00 3.24 ATOM 1097 HE1 TYR 73 -6.066 -0.155 7.896 1.00 4.19 ATOM 1098 CE2 TYR 73 -6.066 -0.155 7.896 1.00 4.19 ATOM 1099 HE2 TYR 73 -7.802 1.952 5.865 1.00 3.68 ATOM 1009 HE2 TYR 73 -7.545 0.866 6.710 1.00 3.90 ATOM 1100 CZ TYR 73 -8.589 -0.590 6.249 1.00 5.00 ATOM 1101 OH TYR 73 -8.689 -0.590 6.249 1.00 5.00 ATOM 1102 HH TYR 73 -8.689 -0.590 6.249 1.00 5.22 ATOM 1104 O TYR 73 -2.755 5.273 6.609 1.00 0.95 ATOM 1105 N PRO 74 -2.273 6.106 7.495 1.00 0.74 ATOM 1106 CA PRO 74 -1.254 7.648 6.453 1.00 1.21 ATOM 1107 HA PRO 74 -1.254 7.648 6.453 1.00 1.21 ATOM 1108 CB PRO 74 -1.254 7.648 6.453 1.00 1.35 ATOM 1109 HB1 PRO 74 -1.254 7.648 6.453 1.00 1.36 ATOM 1109 HB2 PRO 74 -1.254 7.648 6.453 1.00 1.36 ATOM 1101 HB2 PRO 74 -1.254 7.648 6.453 1.00 1.36 ATOM 1101 HB2 PRO 74 -1.254 7.648 6.453 1.00 1.36 ATOM 1101 HB2 PRO 74 -1.254 7.648 6.453 1.00 1.36 ATOM 1101 HB2 PRO 74 -1.254 7.648 6.453 1.00 1.36 ATOM 1101 HB2 PRO 74 -1.254 7.648 6.453 1.00 1.36 ATOM 1107 HB2 PRO 74 -1.254 7.648 6.453 1.00 1.36 ATOM 1108 CB PRO 74 -1.254 7.648 6.453 1.00 1.36 ATOM 1109 HB1 PRO 74 -2.229 7.967 10.049 1.00 1.70 ATOM 1101 HB2 PRO 74 -1.254 7.668 8.631 8.438 1.00 1.46 ATOM 1110 HB2 PRO 74 -2.289 6.328 8.828 1.00 1.44 ATOM 1116 HD1 PRO 74 -2.889 6.328 8.828 1.00 1.04 ATOM 1116 HD1 PRO 74 -2.889 6.328 8.828 1.00 1.04 ATOM 1116 HD1 PRO 74 -2.889 6.328 8.828 1.00 1.04										
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ATOM 1090 HB2 TYR 73					-		3.635	5.742	1.00	1.86
ATOM 1091 CG TYR 73						-3.531	3.082	5.395	1.00	2.35
ATOM 1091 CG TYR 73		1090	HB2	TYR	73	-4.726	4.300	4.961		
ATOM 1092 CD1 TYR 73				TYR	73	-5.498	2,670	6.089		
ATOM 1093 HD1 TYR 73	ATOM	.1092	CD1	TYR	73					
ATOM 1094 CD2 TYR 73	MOTA		HD1		73					
ATOM 1095 HD2 TYR 73	ATOM	1094								
ATOM 1096 CE1 TYR 73	ATOM									
ATOM 1097 HE1 TYR 73										
ATOM 1098 CE2 TYR 73				שעים						3.40
ATOM 1099 HE2 TYR 73 -8.789 2.093 5.452 1.00 4.49 ATOM 1100 CZ TYR 73 -7.545 0.866 6.710 1.00 3.90 ATOM 1101 OH TYR 73 -8.554 -0.024 7.013 1.00 5.00 ATOM 1102 HH TYR 73 -8.689 -0.590 6.249 1.00 5.22 ATOM 1103 C TYR 73 -2.755 5.273 6.609 1.00 0.95 ATOM 1104 O TYR 73 -2.219 5.127 5.529 1.00 1.21 ATOM 1105 N PRO 74 -2.273 6.106 7.495 1.00 0.74 ATOM 1106 CA PRO 74 -1.054 6.895 7.197 1.00 0.82 ATOM 1107 HA PRO 74 -1.254 7.648 6.453 1.00 1.05 ATOM 1108 CB PRO 74 -0.746 7.558 8.543 1.00 1.05 ATOM 1109 HB1 PRO 74 -0.746 7.558 8.543 1.00 1.18 ATOM 1109 HB1 PRO 74 -0.786 8.631 8.438 1.00 1.46 ATOM 1110 HB2 PRO 74 -0.786 8.631 8.438 1.00 1.46 ATOM 1111 CG PRO 74 -1.795 7.105 9.566 1.00 1.28 ATOM 1111 HG1 PRO 74 -2.229 7.967 10.049 1.00 1.70 ATOM 1113 HG2 PRO 74 -1.330 6.468 10.305 1.00 1.61 ATOM 1114 CD PRO 74 -2.889 6.328 8.828 1.00 1.04 ATOM 1115 HD2 PRO 74 -3.098 5.393 9.328 1.00 1.24 ATOM 1116 HD1 PRO 74 -3.098 5.393 9.328 1.00 1.24						-7 902				4.19
ATOM 1100 CZ TYR 73										
ATOM 1101 OH TYR 73 -8.554 -0.024 7.013 1.00 5.00 ATOM 1102 HH TYR 73 -8.689 -0.590 6.249 1.00 5.22 ATOM 1103 C TYR 73 -2.755 5.273 6.609 1.00 0.95 ATOM 1104 O TYR 73 -2.219 5.127 5.529 1.00 1.21 ATOM 1105 N PRO 74 -2.273 6.106 7.495 1.00 0.74 ATOM 1106 CA PRO 74 -1.054 6.895 7.197 1.00 0.82 ATOM 1107 HA PRO 74 -1.254 7.648 6.453 1.00 1.05 ATOM 1108 CB PRO 74 -0.746 7.558 8.543 1.00 1.05 ATOM 1109 HB1 PRO 74 -0.746 7.558 8.543 1.00 1.18 ATOM 1109 HB1 PRO 74 -0.786 8.631 8.438 1.00 1.46 ATOM 1110 HB2 PRO 74 -0.786 8.631 8.438 1.00 1.46 ATOM 1111 CG PRO 74 -1.795 7.105 9.566 1.00 1.28 ATOM 1112 HG1 PRO 74 -2.229 7.967 10.049 1.00 1.70 ATOM 1113 HG2 PRO 74 -1.330 6.468 10.305 1.00 1.61 ATOM 1114 CD PRO 74 -2.889 6.328 8.828 1.00 1.04 ATOM 1115 HD2 PRO 74 -3.098 5.393 9.328 1.00 1.24 ATOM 1116 HD1 PRO 74 -3.778 6.929 8.733 1.00 1.14										
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ATOM 1104 O TYR 73 -2.219 5.127 5.529 1.00 1.21 ATOM 1105 N PRO 74 -2.273 6.106 7.495 1.00 0.74 ATOM 1106 CA PRO 74 -1.054 6.895 7.197 1.00 0.82 ATOM 1107 HA PRO 74 -1.254 7.648 6.453 1.00 1.05 ATOM 1108 CB PRO 74 -0.746 7.558 8.543 1.00 1.18 ATOM 1109 HB1 PRO 74 -0.746 7.558 8.543 1.00 1.18 ATOM 1110 HB2 PRO 74 -0.786 8.631 8.438 1.00 1.46 ATOM 1110 HB2 PRO 74 0.239 7.261 8.876 1.00 1.28 ATOM 1111 CG PRO 74 -1.795 7.105 9.566 1.00 1.35 ATOM 1112 HG1 PRO 74 -2.229 7.967 10.049 1.00 1.70 ATOM 1113 HG2 PRO 74 -1.330 6.468 10.305 1.00 1.61 ATOM 1114 CD PRO 74 -2.889 6.328 8.828 1.00 1.04 ATOM 1115 HD2 PRO 74 -3.098 5.393 9.328 1.00 1.24 ATOM 1116 HD1 PRO 74 -3.778 6.929 8.733 1.00 1.14			C	TYR	73	-2.755	5.273	6.609	1.00	0.95
ATOM 1105 N PRO 74 -2.273 6.106 7.495 1.00 0.74 ATOM 1106 CA PRO 74 -1.054 6.895 7.197 1.00 0.82 ATOM 1107 HA PRO 74 -1.254 7.648 6.453 1.00 1.05 ATOM 1108 CB PRO 74 -0.746 7.558 8.543 1.00 1.18 ATOM 1109 HB1 PRO 74 -0.786 8.631 8.438 1.00 1.18 ATOM 1110 HB2 PRO 74 0.239 7.261 8.876 1.00 1.28 ATOM 1111 CG PRO 74 -1.795 7.105 9.566 1.00 1.35 ATOM 1112 HG1 PRO 74 -2.229 7.967 10.049 1.00 1.70 ATOM 1113 HG2 PRO 74 -1.330 6.468 10.305 1.00 1.61 ATOM 1114 CD PRO 74 -2.889 6.328 8.828 1.00 1.04 ATOM 1115 HD2 PRO 74 -3.098 5.393 9.328 1.00 1.24 ATOM 1116 HD1 PRO 74 -3.778 6.929 8.733 1.00 1.14			0	TYR	73	-2.219				
ATOM 1106 CA PRO 74 -1.054 6.895 7.197 1.00 0.82 ATOM 1107 HA PRO 74 -1.254 7.648 6.453 1.00 1.05 ATOM 1108 CB PRO 74 -0.746 7.558 8.543 1.00 1.18 ATOM 1109 HB1 PRO 74 -0.786 8.631 8.438 1.00 1.46 ATOM 1110 HB2 PRO 74 0.239 7.261 8.876 1.00 1.28 ATOM 1111 CG PRO 74 -1.795 7.105 9.566 1.00 1.35 ATOM 1112 HG1 PRO 74 -2.229 7.967 10.049 1.00 1.70 ATOM 1113 HG2 PRO 74 -1.330 6.468 10.305 1.00 1.61 ATOM 1114 CD PRO 74 -2.889 6.328 8.828 1.00 1.04 ATOM 1115 HD2 PRO 74 -3.098 5.393 9.328 1.00 1.24 ATOM 1116 HD1 PRO 74 -3.778 6.929 8.733 1.00 1.14		. 1105	N	PRO	74					
ATOM 1107 HA PRO 74 -1.254 7.648 6.453 1.00 1.05 ATOM 1108 CB PRO 74 -0.746 7.558 8.543 1.00 1.18 ATOM 1109 HB1 PRO 74 -0.786 8.631 8.438 1.00 1.46 ATOM 1110 HB2 PRO 74 0.239 7.261 8.876 1.00 1.28 ATOM 1111 CG PRO 74 -1.795 7.105 9.566 1.00 1.35 ATOM 1112 HG1 PRO 74 -2.229 7.967 10.049 1.00 1.70 ATOM 1113 HG2 PRO 74 -1.330 6.468 10.305 1.00 1.61 ATOM 1114 CD PRO 74 -2.889 6.328 8.828 1.00 1.04 ATOM 1115 HD2 PRO 74 -3.098 5.393 9.328 1.00 1.24 ATOM 1116 HD1 PRO 74 -3.778 6.929 8.733 1.00 1.14	MOTA	1106								
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ATOM 1114 CD PRO 74 -2.889 6.328 8.828 1.00 1.04 ATOM 1115 HD2 PRO 74 -3.098 5.393 9.328 1.00 1.24 ATOM 1116 HD1 PRO 74 -3.778 6.929 8.733 1.00 1.14										
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ATOM 1115 HD2 PRO 74 -3.098 5.393 9.328 1.00 1.24 ATOM 1116 HD1 PRO 74 -3.778 6.929 8.733 1.00 1.14									1.00	
ATOM 1116 HD1 PRO 74 -3.778 6.929 8.733 1.00 1.14							5.393	9.328		
						-3.778				
	MOTA	1117	C	PRO	74	0.097				

ATOM .	1118	0	PRO	74	0.136	4.822	7.106	1.00	0.66
									0.00
MOTA	1119		PHE	75	1,038	6.503	6.032	1.00	0.56
MOTA	1120	HN	PHE	75	1.000	7.447	5.770	1.00	0.61
MOTA	1121	CA	PHE	75	2.179	5.651	5.605	1.00	0.45
	1122		PHE	75	1.816	4.659	5.360		0.48
ATOM								1.00	
MOTA	1123	CB	PHE	75	2.859	6.266	4.379	1.00	0.42
MOTA	1124	HB1	PHE	75	3.761	5.718	4.153	1.00	0.44
MOTA	1125	HB2		75	3.104	7.298	4.582	1.00	0.45
MOTA	1126		PHE	75	1.915	6.190	3.200	1.00	0.48
MOTA	, 1127	CD1	PHE	75	1.764	4.986	2.501	1.00	0.41
ATOM	1128	HD1		75	2.329	4.115	2.797	1.00	0.45
MOTA	1129	CD2		75	1.184	7.320	2.812	1.00	0.74
MOTA	1130	HD2	PHE	75	1.300	8.249	3.349	1.00	0.90
MOTA	1131	CE1	PHE	75	0.882	4.911	1.415	1.00	0.50
MOTA	1132	HE1		75		3.982	0.877		
					0.767			1.00	0.53
atom	1133	CE2	PHE	75	0.304	7.245	1.724	1.00	0.85
ATOM	1134	HE2	PHE	75	-0.258	8.117	1.423	1.00	1.09
MOTA	1135		PHE	75	0.154	6.041	1.026	1.00	0.69
MOTA	1136	HZ	PHE	75	-0.526	5.983	0.188	1.00	0.80
ATOM	1137	С	PHE	75	3.159	5.561	6.776	1.00	0.43
ATOM	1138	0	PHE	75	3.111	6.360	7.690	1.00	0.50
	1139		ASP	76					
ATOM					4.020	4.582	6.782	1.00	0.37
ATOM	1140	HN	ASP	76	4.028	3.929	6.050	1.00	0.32
MOTA	1141	CA	ASP	76	4.967	4.432	7.927	1.00	0.43
ATOM	1142		ASP	76		4.906	8.804	1.00	0.50
					551	4.200			
MOTA	1143	CB	ASP	76	5.180	2.946	8.215	1.00	0.46
MOTA	. 1144	HB1	ASP	76	4.224	2.467	8.365	1.00	0.49
ATOM'	1145	HB2		76	5.784	2.834	9.104	1.00	0.54
					3.704				
MOTA	1146		ASP	76	5.892	2.295	7.028	1.00	0.38
MOTA	1147	OD1	ASP	76	6.468	1.236	7.218	1.00	0.45
MOTA	1148	OD2		76	5.846	2.864	5.950	1.00	0.30
							3.330		
MOTA	1149	Ç	ASP	76	6.314	5.074	7.596	1.00	0.42
MOTA	1150	0	ASP	76	7.314	4.770	8.216	1.00	0.54
MOTA	1151	N	GLY	77	6.347	5.958	6.632	1.00	0.35
MOTA	1152	HN	GLY	77					
					5.525	6.187	6.151	1.00	0.36
MOTA	1153	ÇA	GLY	77	7.634	6.625	6.267	1.00	0.38
ATOM	1154	HA1	GLY	77 .	8.378	6.388	7.004	1.00	0.45
MOTA	1155		GLY	77	7.484	7.696	6.238	1.00	0.44
					7.404	,7.090			
MOTA	1156	С	GLY	77	8.084	6.131	4.884	1.00	0.31
ATOM	1157	0	GLY	77	7.262	5.767	4.068	1.00	0.37
MOTA	1158	N	PRO	78	9.370	6.117	4.603	1.00	0.33
	1159								
MOTA		CA	PRO	78	9.856	5.651	3.274	1.00	0.36
ATOM	1160	HA	PRO	78	9.435	6.254	2.488	1.00	0.42
ATOM	1161	CB	PRO	78	11.364	5.903	3.359	1.00	0.46
ATOM	1162	HB1		78	11.671	6.542			
					11.0/1		2.545	1.00	0.56
MOTA	1163	HB2	PRO	78	11.892	4:962	3.303	1.00	0.48
MOTA	1164	CG	PRO	78	11.675	6.592	4.694	1.00	0.64
MOTA	1165	HG1		78	11.965	7.616	4.516	1.00	0.87
	1166					7.010			
MOTA			PRO	78	12.478	6.068	5.194	1.00	0.83
MOTA	1167	CD	PRO	78	10.418	6.562	5.563	1.00	0.45
MOTA	1168	HD2	PRO	78	10.535	5.848	6.369	1.00	0.48
ATOM	1169	HD1							
				78	10.187	7.544	5.944	1.00	0.49
MOTA	1170	С	PRO	78	9.564	4.165	3.027	1.00	0.30
MOTA	1171	0	PRO	78	8.860	3.808	2.105	1.00	0.28
MOTA	1172	N	SER	79	10.102	3.297	3.840	1.00	0.31
MOTA	1173						3.040		0.51
		HN	SER	79	10.670	3.604	4.577	1.00	0.35
MOTA	1174	CA	SER	79	9.855	1.837	3.647	1.00	0.30
ATOM	1175	HA	SER	79	9.916	1.599	2.595	1.00	0.30
MOTA	1176	CB	SER	79	10.911	1.037	4.410		0.37
								1.00	
MOTA	1177		SER	79	11.888	1.465	4.225	1.00	0.42
MOTA	.1178	HB2	SER	79	10.901	0.013	4.076	1.00	0.39
MOTA	1179	OG	SER	79	10.617	1.080	5.800	1.00	0.38
ATOM	1180					1 750			
		HG	SER	79	11.173	1,752	6.201	1.00	0.98
MOTA	1181	С	SER	79	8.463	1,470	4.173	1.00	0.27
ATOM-	1182	0	SER	79	7.888	2.183	4.971	1.00	0.25
MOTA	1183					0.256	3 774		
		N	GLY	80	7.927	0.356	3.734	1.00	0.31
MOTA	1184	HN	GLY	80	8.420	-0.200	3.095	1.00	Q.37
MOTA	1185	CA	GLY	80	6.576	-0.081	4.207	1.00	0.30
ATOM	1186		GLY	80					
					6.224	0.586	4.977	1.00	0.31
ATOM	1187	HA2		80	6.646	-1.083	4.607	1.00	0.36
ATOM	1188	С	GLY	80	5.584	-0.070	3.042	1.00	0.25
ATOM	1189	ŏ	GLY	80	5.850	-0.601			
							1.981	1.00	0.25
MOTA	1190	N	LEU	81	4.440	0.531	3.232	1.00	0.23
MOTA	1191	HN	LEU	81	4.246	0.951	4.096	1.00	0.25
MOTA	1192	CA	LEU	81	3.428	0.577	2.138	1.00	0.21
MOTA	1193								
		HA	LEU	81	3.259	-0.417	1.761	1.00	0.22
MOTA	1194	CB	LEU	81	2.123	1.164	2.692	1.00	0.24

	1106	1104			1				
atom	1195	HB1		81	1.587	1.658	1.896	1.00	0.25
MCTA	1196	HB2	LEU	81	2.356	1.881	3.465	1.00	0.29
MOTA	1197	CG	LEU	81	1.240	0.058	3.283	1.00	0.28
MOTA	1198	HG	LEU	81	1.856	-0.678	3.779	1.00	0.31
MOTA	1199	CD1	LEU	81	0.265	0.680	4.285	1.00	0.33
ATOM		HD11							
				81.	0.071	1.706	4.009	1.00	1.05
MOTA	1201	HD12	LEU	81	0.696	0.649	5.274	1.00	1.10
MOTA		HD13		81	-0.662	0.125	4.278	1.00	1.06
MOTA	1203	CD2		81	0.426	-0.606	2.168	1.00	0.31
MOTA	1204	HD21	LEU	81	1.087	-0.997	1.412	1.00	1.02
ATOM	1205		LEU	81	-0.233	0.126	1.724		1.09
								1.00	1.09
ATOM	1206	HD23	LEU	81	-0.161	-1.411	2.584	1.00	1.06
MOTA	1207	C	LEU	81	3.953	1.475	1.017	1.00	0.20
	1208								
MOTA		0	LEU	81	3.988	2.679	1.141	1.00	0.22
MOTA	1209	N	LEU	82	4.366	0.899	-0.078	1.00	0.18
MOTA	1210	HN	LEU	82	4.334	-0.077	-0.162	1.00	0.18
MOTA	1211	CA	LEU	82	4.901	1.728	-1.195	1.00	0.18
MOTA	1212	HA	LEU	82	5.519	2.520	-0.799	1.00	0.19
MOTA	1213	CB	LEU	82	5.728	0.840	-2.128		0.18
								1.00	
MOTA	1214	HB1	LEU	82	6.235	1.457	-2.854	1.00	0.20
MOTA	1215	HB2	LEU	82	5.071	0.151	-2.640	1.00	0.20
MOTA	1216	CG	LEU	82	6.763				
						0.050	-1.323	1.00	0.18
MOTA	1217	HG	LEU	82	6.262	-0.523	-0.556	1.00	0.22
MOTA	1218	CD1	LEU	82	7.513	-0.898	-2.259	1.00	0.17
ATOM		HD11		82		-0.321			
					8.102		-2.957	1.00	0.97
MOTA		HD12		82	6.802	-1.503	-2.802	1.00	0.95
ATOM	1221	HD13	LEH	82	8.163	-1.537	-1.681	1.00	0.98
MOTA	1222							1.00	0.30
				82	7.764	1.010	-0.675	1.00	0.23
ATOM	1223	HD21	LEU	82	8.019	1.790	-1.375	1.00	1.03
ATOM			LEU	82	8.657	0.466	-0.403	1.00	1.07
MOTA		HD23	FEO	82	7.326	1.447	·0.209	1.00	1.02
MOTA	1226	C	LEU	82	3.740	2.329	-1.986	1.00	0.19
ATOM	1227	ō	LEU	82					
					3.882	3.341	-2.646	1.00	0.21
MOTA	1228	N	ALA	83 ·	2.594	1.711	-1.919	1.00	0.21
MOTA	1229	HN	ALA	83	2.512	0.899	-1.376	1.00	0.24
MOTA	1230	CA	ALA	83	1.410	2.225	-2.662	1.00	0.22
ATOM	1231	HA	ALA	83	1.217	3.251	-2.381	1.00	0.22
MOTA	1232	CB	ALA	83	1.668	2.140	-4.171	1.00	0.23
MOTA	1233	HB1	ALA	83	2.522	2.746	-4.429	1.00	0.98
MOTA	1234	HB2	ALA	83	0.801	2.497	-4.705	1.00	1.00
ATOM	1235		ALA	83					
					1.860	1.113	-4.445	1.00	
MOTA	1236	С	ALA	83	0,204	1.350	-2.317	1.00	0.27
ATOM	1237	0	ALA	83	0.342	0.301	-1.720	1.00	0.36
ATOM	1238								
	1236	N	HIS	84	-0.976	1.762	-2.686	1.00	0.24
MOTA	1239	HN	HIS	84	-1.075	2.609	-3.170	1.00	0.20
MOTA	1240	CA	HIS	84	-2.173	0.933	-2.370	1.00	
MOTA	1241	HA	HIS	84	-1.940	-0.108	-2.542	1.00	0.36
ATOM	1242	CB	HIS	84	-2.562	1.127	-0.903	1.00	0.40
ATOM	1243	HB1		84	-1.695				
						0.965	-0.278	1.00	0.48
MOTA	1244	HB2	HIS	84	-3.332	0.419	-0.638	1.00	0.45
ATOM	1245	CG	HIS	84	-3.074	2.525	-0.692	1.00	0.44
ATOM	1246					2.323			
			HIS	84	-4.384	2.781	-0.321	1.00	1.32
ATOM	1247	HD1	HIS	84	-5.084	2.112	-0.169	1.00	2.02
ATOM	1248	CD2	HIS	84	-2.465	3.752	-0.788	1.00	0.74
ATOM	1249		HIS						
				84	-1.432	3.915	-1.060	1.00	1.58
MOTA	1250		HIS	84	-4.521	4.114	-0.208	1.00	1.21
MOTA	1251	HE1	HIS	84	-5.441	4.606	0.071	1.00	1.87
MOTA	1252		HIS	84	-3.381	4.754		1.00	
							-0.482		0.53
MOTA	1253	C	HIS	84	-3.337	1.343	-3.274	1.00	0.25
MOTA	1254	0	HIS	84	-3.347	2.417	-3.843	1.00	0.23
ATOM	1255		ALA	_					
	1200	N		85	-4.313	0.489	-3.417	1.00	0.27
MOTA	1256	ни	ALA	85	-4.279	-0.374	-2.954	1.00	0.34
ATOM	1257	CA	ALA	85	-5.474	0.817	-4.291	1.00	0.24
MOTA	1258	HA	ALA	85	-5.582	1.890	-4.364	1.00	0.22
MOTA	1259	CB	ALA	85	-5.236	0.231	-5.685	1.00	0.25
MOTA	1260		ALA	85	-5.079	-0.835			
							-5.605	1.00	1.05
MOTA	1261	HB2	ALA	85	-4.364	0.690	-6.126	1.00	1.05
MOTA	1262	нв3	ALA	85	-6.097	0.420	-6.308	1.00	1.06
ATOM	1263								
		Ç	ALA	85	-6.748	0.210	-3.698	1.00	0.26
MOTA	1264	0	ALA	85	-6.694	-0.611	-2.804	1.00	0.33
ATOM	1265	N	PHE	86	-7.892	0.605	-4.198		0.28
								1.00	
ATOM	1266	HN	PHE	86	-7.905	1.264	-4.922	1.00	0.31
ATOM	1267	CA	PHE	86	-9.179	0.053	-3.677	1.00	0.34
ATOM	1268	HA	PHE	86	-9.000				
						-0.443	-2.737	1.00	0.39
MOTA	1269	ÇВ	PHE	86	-10.170	1.205	-3.471	1.00	0.36
MOTA	1270	HR1	PHE	86	-11,177	0.821	-3.459	1.00	
					10 000				0.42
MOTA	1271	nB2	PHE	86	-10.068	1.913	-4.279	1.00	0.33

ATOM .	1272	CG	PHE	86	-9.877	1.896	-2.159	1 00	0.39
ATOM	1273	CD1						1.00	_
	_			86	-8.784	2.764	-2.050	1.00	0.46
MOTA	1274		PHE	86	-8.146	2.939	-2.903	1.00	0.67
MOTA	1275	CD2		86	-10.703	1.670	-1.051	1.00	0.67
MOTA	1276		PHE	86	-11.546	1.001	-1.133	1.00	0.91
MOTA	1277	CE1	PHE	86	-8.516	3.406	-0.835	1.00	0.50
MOTA	1278	HE1	PHE	86	-7.673	4.075	-0.751	1.00	0.69
ATOM	1279	CE2	PHE	86	-10.435	2.311	0.165	1.00	0.74
ATOM	1280	HE2	PHE	86	-11.071	2.136	1.020	1.00	1.02
	1281	CZ	PHE	86	-9.342	3.179	0.273	1.00	0.54
MOTA	1282	HZ	PHE	86	-9.135	3.674	1.211	1.00	0.62
ATOM	1283	c	PHE	86	-9.746	-0.940	-4.710	1.00	0.36
MOTA	1284	ŏ	PHE	86	-9.480	7	-5.889		
	1285			87		-0.812		1.00	0.34
MOTA	1286	N	PRO		-10.516	-1.926	-4.293	1.00	0.43
MOTA		CA	PRO	87	-11.082	-2.914	-5.257	1.00	0.46
MOTA	1287	HA	PRO	87	-10.296	-3.524	-5.665	1.00	0.53
MOTA		CB	PRO	87	-11.990	-3.770	-4.370	1.00	0.60
ATOM	1289	HB1		87	-11.644	-4.792	-4.377	1.00	0.69
MOTA	1290	HB2	PRO	87	-13.004	-3.727	-4.742	1.00	0.73
MOTA	1291	CG	PRO	87	-11.943	-3,225	-2.937	1.00	0.58
MOTA	1292	HG1	PRO	87	-11.694	-4.022	-2.253	1.00	0.61
MOTA	1293	HG2	PRO	87	-12.905	-2.808	-2.676	1.00	0.66
MOTA	1294	CD	PRO	87	-10.872	-2.135	-2.861	1.00	0.50
MOTA	1295	HD2	PRO	87	-11.277	-1.235	-2.421	1.00	0.50
ATOM	1296	HD1	PRO	87	-10.014	-2.484	-2.309	1.00	0.52
ATOM	1297	Ċ.	PRO	87	-11.895			7 1 1 1	
ATOM	1298		PRO			-2.246	-6.379	1.00	0.40
	4	0		87	-12.221	-1.078	-6.299	1.00	0.42
ATOM	1299	N	PRO	88	-12.221	-2.981	-7.419	1.00	0.44
ATOM	1300	CA	PRO	88	-13.007	-2.416	-8.554	1.00	0.48
MOTA	1301	HA	PRO	88	-12.443	-1.645	-9.053	1.00	0.52
MOTA	1302	CB	PRO	88	-13.163	-3.622	-9.488	1.00	0.61
ATOM	1303	HB1	PRO	88	-12.604	-3.449	-10.395	1.00	0.83
MOTA	1304	HB2	PRO	88	-14.204	-3.772	-9.728	1.00	0.74
ATOM	1305	CG	PRO	88	-12.609	-4.863	-8.781	1.00	0.57
ATOM	1306	HG1	PRO	88	-11.945	-5.395	-9.446	1.00	0.71
ATOM	1307	HG2	PRO	88	-13.425	-5.508	-8.488		0.64
MOTA	1308							1.00	
		CD	PRO			-4.413	-7.540	1.00	0.56
MOTA	1309	HD2	PRO	88	-12.146	-4,977	-6.671	1.00	0.62
ATOM	1310	HD1	PRO	88	-10.773	-4.503	-7.702	1.00	0.65
ATOM	1311	Ċ	PRO	88	-14.372	-1.873	-8.109	1.00	0.47
ATOM	1312	0	PRO	88	-15.380	-2.551	-8.172	1.00	0.88
MOTA	1313	N	GLY	89	-14.400	-0.647	-7.661	1.00	0.63
MOTA	1314	HN	GLY	89	-13.571	-0.129	-7.626	1.00	1.01
ATOM	1315	CA	GLY	89	-15.681	-0.026	-7.209	1.00	0.65
ATOM	1316	HA1	GLY	89	-15.536	0.422	-6.239	1.00	0.62
ATOM	1317	HA2	GLY	89	-16.455	-0.778	-7.148	1.00	0.78
ATOM	1318	c	GLY	89	-16.092	1.057	-8.210	1.00	0.74
ATOM	1319	ŏ	GLY	89	-15.541	1.151			
ATOM	1320	N	PRO	90	17.044		-9.289	1.00	0.84
	1321				-17.044	1.878	-7.852	1.00	0.95
MOTA		CA	PRO	90	-17.499	2.973	-8.750	1.00	1.19
MOTA	1322	HA	PRO	90	-17.819	2.565	-9.697	1.00	1.37
ATOM	1323	CB	PRO	90	-18.720	3.532	-7.990	1.00	1.55
atom	1324		PRO	90	-19.602	3.432	-8.605	1.00	1.85
MOTA	1325	HB2	PRO	90	-18.572	4.567	-7.740	1.00	1.74
MOTA	1326	CG	PRO	. 90	-18.913	2.724	-6.702	1.00	1.46
ATOM	1327	HG1	PRO	90	-19.828	2.155	-6.763	1.00	1.60
MOTA	1328	HG2	PRO	90	-18.959	3.396	-5.857	1.00	1.57
MOTA	1329	CD	PRO	90	-17.729	1.769	-6.539	1.00	1.17
MOTA	1330	HD2	PRO	90	-17.083	2.099	-5.736	1.00	1.17
MOTA	1331		PRO	90	-18.067	0.759	-6.375	1.00	1.28
ATOM	1332	c	PRO	90	-16.375	4:011	-8.972		1.14
ATOM	1333	ŏ	PRO	90				1.00	
MOTA					-15.269	3.649	-9.320	1.00	1.53
	1334	N	ASN	91	-16.624	5.282	-8.790	1.00	1.17
MOTA	1335	HN	ASN	91	-17.514	5.578	-8.517	1.00	1.40
ATOM	1336	CA	ASN	91	-15.541	6.286	-9.008	1.00	1.38
MOTA	1337	HA	asn	91	-15.147		-10.005	1.00	1.58
ATOM	1338	CB	ASN	91	-16.116	7.700	-8.857	1.00	1.87
MOTA	1339		ASN	91	-15.336	8.372	-8.532	1.00	2.33
MOTA	1340		ASN	91	-16.908	7.686	-8.122	1.00	1.96
MOTA	1341	CG	ASN	91	-16.678		-10.197	1.00	2.69
MOTA	1342		ASN	91	-16.132		-11.242		3.20
ATOM	1343		ASN	91	-17.748			1.00	
ATOM		HD21			-10 100		-10.212	1.00	3.47
ATOM				91	-18.186	9.176	-9.370	1.00	3.59
		HD22	ASN	91	-18.112		-11.064	1.00	4.20
MOTA	1346	C	ASN	91	-14.404	6.098	-7.992	1.00	1.15
ATOM	1347	0	ASN	91	-13.242	6.135	-8.344	1.00	1.26
MOTA	1348	N	TYR	92	-14 719	5 924	-6 735	1 00	1 01

ATOM	1349	HN	TYR	92	-15.660	5.916	-6.462	1.00	1 00
									1.08
MOTA	1350		TYR	92	-13.639	5.768	-5.711	1.00	0.97
MOTA	1351	HA	TYR	92	-12.994	6.632	-5.739	1.00	1.14
MOTA	1352	CB	TYR	92	-14.262	5.652	-4.319	1.00	1.09
ATOM	1353		TYR	92	-13.543	5.214	-3.643	1.00	1.62
	1354								
ATOM .			TYR	92	-15.135	5.020	-4.369	1.00	1.45
MOTA	1355		TYR	92	-14.656	7.018	-3.810	1.00	1.52
MOTA	1356	CD1	TYR	92	-13.672	7.979	-3.549	1.00	2.14
MOTA	1357	HD1		92	-12.631	7.747	-3.719		
								1.00	2.46
MOTA	1358	CD2	TYR	92	-16.006	7.320	-3.588	1.00	2.44
ATOM	1359	HD2	TYR	92	-16.766	6.580	-3.789	1.00	2.86
MOTA	1360		TYR	92	-14.037	9.241	-3.066	1.00	3.06
MOTA	1361		TYR	92					
					-13.278	9.982	-2.865	1.00	3.78
MOTA	1362		TYR	92	-16.370	8.582	-3.107	1.00	3.33
MOTA	1363	HE2	TYR	92	-17.411	8.815	-2.936	1.00	4.19
MOTA	1364		TYR	92	-15.386	9.542	-2.846	1.00	3.50
ATOM	1365		TYR	92					
					-15.746	10.786	-2.368	1.00	4.57
ATOM	1366	HH	TYR	92	-15.602	10.791	-1.419	1.00	4.91
MOTA	1367	C	TYR	92	-12.808	4.508	-5.966	1.00	0.78
ATOM	1368	0	TYR	92	-11.605	4.506	-5.798	1.00	0.81
MOTA	1369								
			GLY	93	-13.436	3.430	-6.337	1.00	0.64
MOTA	1370	HN	GLY.	93	-14.410	3.441	-6.445	1.00	0.70
ATOM	1371	CA	GLY	93	-12.674	2.170	-6.560	1.00	0.51
ATOM	1372		GLY	93	-13.366	1.366	-6.740	1.00	0.51
ATOM	1373		GLY	93	13.500				
					-12.090	1.947	-5.678	1.00	0.51
MOTA	1374		GLY	93	-11.739	2.310	-7.761	1.00	0.49
MOTA	1375	0	GLY	93	-11.832	3.242	-8.534	1.00	0.61
MOTA	1376		GLY	94	-10.844	1.373	-7.923	1.00	
	1377								0.45
MOTA			GLY	94	-10.799	0.627	-7.288	1.00	0.44
MOTA	1378	CA	GLY	94	-9.902	1,420	-9.075	1.00	0.55.
MOTA	1379	HA1	GLY	94	-10.459	1.569	-9.988	1.00	0.63
MOTA	1380		GLY	94	-9.363	0.485	-9.133		
								1.00	0.58
ATOM	1381		GLY	94	-8.905	2.569	-8.901	1.00	0.60
MOTA.	1382	0	GLY	94	-8.109	2.838	-9.772	1.00	1.14
MOTA	1383	N .	ASP	95	-8.933	3.252	-7.790	1.00	0.24
MOTA	1384		ASP	95	-9.581	3.028	-7.089		
ATOM	1385							1.00	0.52
			ASP	95	-7.976	4.382	-7.597	1.00	0.24
ATOM	1386	HA .	ASP	95	-7.888	4.939	-8.518	1.00	0.28
MOTA	1387	CB .	ASP	95	-8.493	5.303	-6.491	1.00	0.26
MOTA	1388	HB1		95	-9.500	5.617	-6.724		0.28
ATOM	1389							1.00	
		HB2		95	-7.853	6.170	-6.415	1.00	0.30
MOTA	1390	CG .	ASP	95	-8.494	4.549	-5.162	1.00	0.28
ATOM	1391	OD1	ASP	95	-8.543	5.200	-4.132	1.00	1.08
MOTA	1392	OD2		95	-8.440	3.331	-5.198		
ATOM	1393		ASP	95				1.00	1.14
					-6.605	3.827	-7.202	1.00	0.23
MOTA	1394	0 .	ASP	95	-6.479	2.683	-6.815	1.00	0.24
ATOM	1395	N.	ALA	96	-5.573	4.626	-7.297	1.00	0.23
ATOM	1396	HN .	ALA	96	-5.692	5.546	-7.614	1.00	0.23
ATOM	1397		ALA						
				96	-4.215	4.131	-6.926	1.00	0.25
MOTA	1398		ALA	96	-4.307	3:360	-6.175	1.00	0.25
MOTA	1399	CB .	ALA	96	-3.527	3.553	-8.164	1.00	0.30
MOTA	1400	HB1	ALA	96	-2.528	3,236	-7.905	1.00	1.08
ATOM	1401	HB2		96	-3.476		0.004		
				-		4.309	-8.934	1.00	1.08
MOTA	1402	нвз .		96	-4.090	2.706	-8.528	1.00	1.03
MOTA	1403	C .	ALA	96	-3.375	5.284	-6.372	1.00	0.25
MOTA	1404	0	ALA	96	-3.222	6.313	-7.005	1.00	0.29
ATOM	1405		HXS	97	-2.831	5.113	-5.192		
								1.00	0.25
MOTA	1406		HXS	97	-2.976	4.271	-4.710	1.00	0.28
MOTA	1407		HXS	97	-1.996	6.187	-4.574	1.00	0.27
MOTA	1408	HA	HXS	97	-2.010	7.068	-5.198	1.00	0.28
MOTA	1409		HXS	97	-2.564	6.537			
MOTA							-3.197	1.00	0.33
	1410	HB1		97	-1.969	7.319	-2.750	1.00	0.44
MOTA	1411	HB2	HXS	97	-2.540	5.661	-2.566	1.00	0.39
MOTA	1412		HXS	97	~3.983	7.009	-3.349	1.00	0.37
ATOM	1413	ND1		97	-4.697		-2.343		
ATOM						7.052	-2.163	1.00	0.80
	1414	CD2		97	-4.783	7.420	-4.384	1.00	0.55
MOTA	1415	HD2		97	-4.517	7.497	-5.428	1.00	0.94
MOTA	1416	CE1	HXS	97	-5.918	7.487	-2.498	1.00	0.86
ATOM	1417	HE1		97					
					-6.724	7.632	-1.795	1.00	1.24
ATOM	1418	NE2		97	-6.018	7.722	-3.819	1.00	0.59
MOTA	1419	HE2	HXS	97	-6.812	8.044	-4.294	1.00	0.72
MOTA	1420		HXS	97	-0.552	5.700	-4.420		0.26
ATOM	1421		HXS	97				1.00	
					-0.299	4.525	-4.237	1.00	0.39
MOTA	1422		PHE	98	0.391	6.604	-4.496	1.00	0.18
MOTA	1423	HN	PHE	98	0.147	7.540	-4.648	1.00	0.23
MOTA	1424		PHE	98	1.832	6.230	-4.360		
MOTA	1425		PHE	98				1.00	0.17
	43	111	E ILE	30	1.921	5.190	-4.085	1.00	0.18

ATOM.	1426	CB	PHE	98		2.543	6.472	-5.691	1 00	0 10
ATOM	1427								1.00	0.18
			PHE	98		3.611	6.464	-5.536	1.00	0.21
MOTA	1428		PHE	98		2.243	7.431	-6.085	1.00	0.20
ATOM	1429	CG	PHE	98		2.169	5.391	-6.674	1.00	0.19
MOTA	1430		PHE	98		3.114	4.428	-7.048	1.00	0.22
ATOM	1431		PHE	98						
						4.110	4.456	-6.631	1.00	0.25
MOTA	1432		PHE	98		0.880	5.355	-7.214	1.00	0.22
MOTA	1433	HD2	PHE	98		0.151	6.098	-6.924	1.00	0.24
ATOM	1434	CEI	PHE	98		2.768	3.429	-7.963	1.00	0.25
ATOM			PHE	98						0.25
						3.496	2.685	-8.252	1.00	0.29
MOTA	1436	CE2	PHE	98		0.533	4.355	-8.127	1.00	0.26
MOTA	1437	HE2	PHE	98		-0.462	4.327	-8.542	1.00	0.31
MOTA	1438	CZ	PHE	98		1.478	3.392	-8.503		
MOTA	1439								1.00	0.26
		HZ	PHE	98		1.214	2.622	-9.211	1.00	0.30
MOTA	1440	С	PHE	98		2.487	7.104	-3.286	1.00	0.17
MOTA	1441	0	PHE	98		2.081	8.226	-3.058	1.00	0.19
MOTA	1442	N	ASP	99		3.498	6.604	-2.625	1.00	0.19
ATOM	1443	HN	ASP	99				2.023		
						3.813	5.693	-2.820	1.00	0.22
MOTA	1444	CA	ASP	. 99		4.167	7.424	-1.570	1.00	0.20
ATOM	1445	HA	ASP	99		3.421	7.956	-0.998	1.00	0.20
ATOM	1446	CB	ASP	99		4.973	6.516	-0.638	1.00	0.25
MOTA	1447		ASP	99						
						5.567	7.122	0.029	1.00	0.28
MOTA	1448		ASP	99		5.624	5.884	-1.226	1.00	0.30
MOTA	1449	CG	ASP	99		4.023	5.646	0.180	1.00	0.41
MOTA	1450	OD1	ASP	99		2.838	5.680	-0.100	1.00	0.89
ATOM	1451		ASP	99		4.497	4.968			
								1.079	1.00	0.27
ATOM .	1452	С	ASP	99		5.123	8.426	-2.224	1.00	0.21
MOTA	1453	0	ASP	99		6.020	8.054	-2.954	1.00	0.25
MOTA	1454	N	ASP	100		4.946	9.694	-1.962	1.00	0.23
ATOM	1455	HN	ASP	100		4.222	9.976			
						4.222,		-1.365	1.00	0.23
MOTA	1456	CA	ASP	100		5.857	10.710	-2.565	1.00	0.29
MOTA	1457	HA	ASP	100		6.169	10.379	-3.545	1.00	0.31
ATOM	1458	CB	ASP	100		5.127	12.049	-2.684	1.00	0.34
MOTA	1459		ASP	100		5.130	12.544	-1.727		
ATOM							12.544		1.00	0.34
	1460		ASP	100		4.109	11.879	-2.999	1.00	0.34
MOTA	1461	CG	ASP	100		5.844	12.929	-3.710	1.00	0.43
ATOM	1462	OD1	ASP	100		5.240	13.887	-4.164	1.00	1.21
MOTA	1463		ASP	100		6.984	12.630	-4.025		
ATOM						0.904	12.030		1.00	1.12
	1464	C	ASP	100		7.085		-1.667	1.00	0.30
MOTA	1465	0	ASP	100		8.032	11.559	-2.018	1.00	0.32
MOTA	1466	N	ASP	101		7.074	10.280	-0.510	1.00	0.31
MOTA	1467	HN	ASP	101		6.298	9.741			
ATOM	1468							-0.249	1.00	0.32
		CA	ASP	101		8.236	10.407	0.415	1.00	0.33
MOTA	1469	HA	ASP	101		8.647	11.403	0.345	1.00	0.36
MOTA	1470	CB	ASP	101	•	7.778	10.142	1.851	1.00	0.39
MOTA	1471	HB1	ASP	101		8.641	10.060	2.495	1.00	0.41
ATOM	1472		ASP	101						
						7.216	9.220	1.884	1.00	0.39
ATOM	1473	CG	ASP	101		6.896	11.296	2.330	1.00	0.45
MOTA	1474	OD1	ASP	101		7.027	12.380	1.786	1.00	1.25
ATOM	1475	OD2	ASP	101		6.104	11.076	3.231	1.00	1.09
MOTA	1476	C	ASP	101						
MOTA	1477					9.304	9.385	0.028	1.00	0.30
••••		0	ASP	101		10.411	9.405	0.529	1.00	0.29
MOTA	1478	N	GLU	102		8.971	8.484	-0.849	1.00	0.30
MOTA	1479	HN	GLU	102		8.068	8.484	-1.230	1.00	0.31
ATOM	1480	CA	GLU	102		9.950	7.444	-1.266	1.00	0.29
ATOM	1481	HA	GLU	102						
						10.649	7.263	-0.463	1.00	0.30
ATOM	1482	CB	GLU	102		9.195	6.155	-1.585	1.00	0.35
MOTA	1483	HB1	GLU	102		9.873	5.437	-2.020	1.00	0.36
ATOM	1484	HB2	GLU	102		8.397	6.368	-2.282	1.00	0.40
MOTA	1485	CG	GLU	102		8.611				
	1486		011				5.584	-0.293	1.00	0.46
		UGI	GLU	102		8.020	6.342	0.200	1.00	1.18
MOTA	1487	HG2	GLU	102		9.415	5.276	0.356	1.00	1.03
MOTA	1488	CD	GLU	102		7.724	4.381	-0.616	1.00	0.83
ATOM	1489		GLU	102		7.601				
ATOM	1490	020	300				4.060	-1.786	1.00	1.63
			GLU	102		7.184	3.801	0.314	1.00	0.87
MOTA	1491	C	GLU	102		10.707	7.917	-2.508	1.00	0.25
MOTA	1492	0	GLU	102		10.359	8.910	-3.115	1.00	0.25
ATOM	1493	N	THR	103		11.741	7 242			
MOTA							7.213	-2.886	1.00	0.25
	1494	HN	THR	103		12.003	6.416	-2.379	1.00	0.28
MOTA	1495	CA	THR	103		12.525	7.620	-4.088	1.00	0.23
ATOM	1496	HA	THR	103		12.356	8.665	-4.301	1.00	0.23
MOTA	1497	CB	THR	103						v.43
ATOM						14.016	7.383	-3.824	1.00	0.27
	1498	HB	THR	103		14.169	6.359	-3.521	1.00	0.30
ATOM	1499	OG1	THR	103		14.455	8.252	-2.789	1:00	0.29
MOTA	1500	HG1	THR	103		15.334	8.564	-3.016	1.00	0.86
ATOM	1501	CG2		103		14.820				
MOTA		HG21					7.656	-5.098	1.00	0.29
Ott	1302	1021	INK	103		15.R64	7 777	-A BAR	1 00	1 00

ATOM	1503	HG22	THR	103	14.457	0 557	- E E C O	1 00	
MOTA						8.557	-5.569	1.00	1.08
		HG23		103	14.710	6.824	-5.779	1.00	1.01
MOTA	1505	C	THR		12.083	6.777	-5.281	1.00	0.22
MOTA	1506	0	THR	103	12.417	5.614	-5.394	1.00	0.23
ATOM	1507	N	TRP	104	11.332	7.358	-6.175	1.00	0.21
ATOM	1508	HN	TRP	104	11.076	8.297	-6.063	1.00	0.23
ATOM	1509	CA	TRP	104	10.867				
ATOM	1510	HA	TRP			6.598	-7.364	1.00	0.21
				104	10.750	5.556	-7.104	1.00	0.20
ATOM	1511	CB	TRP	104	9.525	7.165	-7.831	1.00	0.23
ATOM	1512	HB1	TRP	104	9.188	6.623	-8.702	1.00	0.24
ATOM	1513	HB2	TRP	104	9.641	8.210	-8.078	1.00	0.25
ATOM	1514	CG	TRP.	104	8.520	7.018	-6.731	1.00	0.24
ATOM	1515	CD1		104	8.098	8.019	-5.924		
ATOM	1516	HD1		104				1.00	0.31
MOTA					8.427	9.045	-5.972	1.00	0.36
	1517	CD2		104	7.811	5.821	-6.300	1.00	0.21
ATOM	1518	NE1		104	7.176	7.512	-5.026	1.00	0.31
ATOM	1519	HE1	TRP	104	6.718	8.030	-4.331	1.00	0.36
MOTA	1520	CE2	TRP	104	6.963	6.162	-5.220	1.00	0.24
ATOM	1521	CE3	TRP	104	7.819	4.486	-6.739	1.00	0.18
MOTA	1522	HE3		104	8.458				
ATOM	1523	CZ2				4.198	-7.559	1.00	0.19
				104	6.153	5.213	-4.596	1.00	0.23
MOTA	1524	HZ2		104	5.515	5.499	-3.774	1.00	0.27
MOTA	1525	CZ3	TRP	104	7.005	3.527	-6.114	1.00	0.20
ATOM	1526	HZ3	TRP	104	7.019	2.504	-6 .460	1.00	0.23
ATOM	1527	CH2	TRP	104	6.173	3.891	-5.045	1.00	0.21
ATOM	1528	HH2	TRP	104	5.548	3.150	-4.568		
ATOM	1529	С	TRP	104				1.00	0.23
ATOM	1530	ŏ			11.911	6.732	-8.474	1.00	0.21
			TRP	104	12.276	7.824	-8.864	1.00	0.24
ATOM	1531	N	THR	105	12.403	5.630	-8.973	1.00	0.20
MOTA	1532	HN	THR	105	12.098	4.763	-8.633	1.00	0.19
MOTA	1533	CA	THR	105	13.437	5.685	-10.048	1.00	0.21
MOTA	1534	HA	THR	105	13.415	6.652	-10.525		
ATOM	1535	CB	THR	105	14.817			1.00	0.24
MOTA	1536	HB	THR	105		5.459	-9.428	1.00	0.21
ATOM	1537				15.018	6.233	-8.704	1.00	0.21
			THR	105	15.806	5.497	-10.447	1.00	0.24
MOTA	1538		THR	105	15.882	6.404	-10.752	1.00	0.86
MOTA	1539		THR	. 105	14.846	4.101	-8.729	1.00	0.21
MOTA	1540	HG21	THR	105	15.178	4.233	-7.711	1.00	1.04
ATOM	1541	HG22	THR	105	15.524	3.442	-9.249	1.00	1.07
MOTA	1542	HG23	THR	105	13.854				
ATOM	1543	C	THR			3.674	-8.731	1.00	0.99
ATOM				105	13.166	4.597		1.00	0.23
	1544	0	THR	105	12.521	3.606	-10.808	1.00	0.23
ATOM	1545	N	SER	106	13.668	4.769	-12.282	1.00	0.26
MOTA	1546	HN	SER	106	14.194	5.572	-12.480	1.00	0.29
MOTA	1547	CA	SER	106	13.454		-13.337	1.00	0.29
ATOM	1548	HA	SER	106	12.570	3.163	-13.111	1.00	
ATOM	1549	CB	SER	106	13.290				0.30
ATOM	1550	HB1	SER			4.423	-14.695	1.00	0.35
ATOM	1551			106	14.249	4.467	-15.193	1.00	1.09
		HB2	SER	106	12.916	5.424	-14.554	1.00	0.96
ATOM	1552	OG	SER	106	12.365	3.685	-15.483	1.00	1.44
MOTA	1553	HG	SER	106	11.671	4.285	-15.766	1.00	1.97
ATOM	1554	С	SER	106	14.674		-13.372	1.00	0.28
ATOM	1555	0	SER	106	14.669	1 701	-14.006		
ATOM	1556	N	SER	107	15.715	2 107	-12.677	1.00	0.31
ATOM	1557	HN	SER	107		3.10/	-12.0//	1.00	0.26
ATOM	1558				15.687	4.023	-12.166	1.00	0.25
ATOM		CA	SER	107	16.940	2.340	-12.641	1.00	0.27
	1559	HA	SER	107	17.018	1.778	-13.560	1.00	0.29
ATOM	1560	CB	SER	107	18.175	3.226	-12.474	1.00	0.28
MOTA	1561	HB1	SER	107	18.292	3.847	-13.353	1.00	1.12
ATOM	1562	HB2	SER	107	19.049	2 609	-12.355	1.00	1.04
ATOM	1563	OG	SER	107	18.017	4 040	-11.320		
ATOM	1564	HG			10.017	4.040	-11.320	1.00	1.29
ATOM	1565		SER	107	18.556	4.827	-11.436	1.00	1.82
		C	SER	107	16.836	1.376	-11.460	1.00	0.26
ATOM	1566	0	SER	107	15.829	1.324	-10.781	1.00	0.26
MOTA	1567	N	SER	108	17.859	0.609	-11.203	1.00	0.28
MOTA	1568	HN	SER	108	18.666	0.658	-11.757	1.00	0.31
MOTA	1569	CA	SER	108	17.788	-0.342	-10.061		
MOTA	1570	HA	SER	108				1.00	0.30
ATOM	1571				16.775	-0.706	-9.967	1.00	0.30
MOTA		CB	SER	108	18.728		-10.330	1.00	0.36
	1572	HB1		108	19.561	-1.505	-9.642	1.00	1.09
MOTA	1573	HB2	SER	108	19.103	-1.468	-11.338	1.00	0.95
ATOM	1574	OG	SER	108	18.005	-2.741	-10.176	1.00	1.47
ATOM	1575	HG	SER	108	18.550	-3 456	-10.513		
ATOM	1576	c	SER	108	18.181	0.390		1.00	2.00
MOTA	1577	ŏ	SER	108			-8.767	1.00	0.28
ATOM	1578				19.279	0.265	-8.261	1.00	0.33
		N	LYS	109	17.272	1.157	-8.224	1.00	0.24
MOTA	1579	HN	LYS	109	16 302	7 7/1	OCAC	1 00	2 22

ATOM 1580 CA LYS 109 17.561 1.897 -6.960 1.00 0.23 ATOM 1582 CB LYS 109 18.123 3.293 -7.268 1.00 0.24 ATOM 1582 CB LYS 109 18.123 3.293 -7.268 1.00 0.24 ATOM 1584 HBZ LYS 109 18.122 3.368 -6.355 1.00 0.25 ATOM 1584 HBZ LYS 109 17.472 3.793 -7.970 1.00 0.25 ATOM 1585 CG LYS 109 17.472 3.793 -7.970 1.00 0.25 ATOM 1585 CG LYS 109 19.525 3.177 -7.868 1.00 0.30 ATOM 1585 HGL LYS 109 19.525 3.177 -7.868 1.00 0.30 ATOM 1585 HGL LYS 109 19.476 2.615 -8.785 1.00 0.57 ATOM 1587 HGZ LYS 109 20.177 2.675 -7.170 1.00 0.70 ATOM 1586 HGL LYS 109 20.177 2.675 -7.170 1.00 0.70 ATOM 1580 HGL LYS 109 20.177 2.675 -7.170 1.00 0.75 ATOM 1580 HGL LYS 109 20.172 4.574 -8.169 1.00 0.72 ATOM 1580 HGL LYS 109 20.124 5.174 -7.254 1.00 1.27 ATOM 1591 HGL LYS 109 21.245 5.074 -8.760 1.00 1.27 ATOM 1591 HGL LYS 109 21.246 5.074 -8.870 1.00 1.27 ATOM 1593 HGL LYS 109 22.000 3.636 -8.297 1.00 1.68 ATOM 1593 HGL LYS 109 22.000 3.636 -8.297 1.00 1.68 ATOM 1593 HGL LYS 109 22.000 3.636 -8.297 1.00 1.68 ATOM 1595 HGL LYS 109 22.155 5.660 -9.006 1.00 2.17 ATOM 1595 HGL LYS 109 22.3155 5.660 -9.006 1.00 2.17 ATOM 1597 HGL LYS 109 22.3155 5.660 -9.006 1.00 2.17 ATOM 1597 HGL LYS 109 22.3155 5.660 -9.006 1.00 2.17 ATOM 1597 HGL LYS 109 16.259 2.052 -6.175 1.00 0.234 ATOM 1598 HGL LYS 109 15.190 2.110 -6.747 1.00 0.20 ATOM 1600 HGL HGL LYS 109 15.190 2.110 -6.747 1.00 0.20 ATOM 1600 HGL HGL LYS 109 15.190 2.110 -6.747 1.00 0.20 ATOM 1600 HGL HGL LYS 109 15.190 2.110 -6.747 1.00 0.20 ATOM 1600 HGL HGL LYS 109 15.190 2.110 -6.747 1.00 0.20 ATOM 1600 HGL HGL LYS 109 15.190 2.110 -6.747 1.00 0.20 ATOM 1600 HGL HGL LYS 109 15.190 2.110 -6.747 1.00 0.20 ATOM 1600 HGL HGL LYS 109 15.190 2.110 -6.747 1.00 0.20 ATOM 1600 HGL HGL LYS 109 15.190 2.110 -6.747 1.00 0.20 ATOM 1600 HGL HGL LYS 100 11.5736 3.302 -4.124 1.00 0.22 ATOM 1600 HGL HGL LYS 100 11.5736 3.302 -4.124 1.00 0.20 ATOM 1600 HGL HGL LYS 100 11.5736 3.302 -4.124 1.00 0.20 ATOM 1600 HGL HGL LYS 100 11.5736 3.302 -4.124 1.00 0.20 ATOM 1600 HGL HGL LYS 100 HGL LYS 100 HGL LYS 100 HGL LYS 100 HGL LYS 1								•		
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ATOM 1589 HD1 LYS 109 20.124 5.144 -7.254 1.00 1.27 ATOM 1590 HD2 LYS 109 19.420 5.074 -8.870 1.00 1.13 ATOM 1591 CE LYS 109 21.395 4.264 -9.830 1.00 1.68 ATOM 1592 HEI LYS 109 22.000 3.636 -8.297 1.00 1.68 ATOM 1594 NZ LYS 109 22.020 3.636 -8.297 1.00 1.68 ATOM 1594 NZ LYS 109 22.224 5.721 -8.545 1.00 1.79 ATOM 1595 HZ1 LYS 109 22.224 5.721 -8.545 1.00 1.79 ATOM 1596 HZ2 LYS 109 22.255 5.660 -9.006 1.00 2.17 ATOM 1597 HZ3 LYS 109 23.155 5.660 -9.006 1.00 2.17 ATOM 1598 C LYS 109 23.155 5.660 -9.006 1.00 2.17 ATOM 1598 C LYS 109 16.259 2.052 -6.175 1.00 0.21 ATOM 1508 C LYS 109 16.259 2.052 -6.175 1.00 0.23 ATOM 1508 C LYS 109 16.259 2.052 -6.175 1.00 0.23 ATOM 1600 N GLY 110 16.338 2.124 -4.873 1.00 0.23 ATOM 1601 HN GLY 110 17.212 2.079 -4.432 1.00 0.26 ATOM 1602 CA GLY 110 15.099 2.283 -4.055 1.00 0.25 ATOM 1603 HA1 GLY 110 14.751 3.302 -4.124 1.00 0.23 ATOM 1604 HA2 GLY 110 14.751 3.302 -4.124 1.00 0.23 ATOM 1605 C GLY 110 14.033 1.342 -4.581 1.00 0.23 ATOM 1606 O GLY 110 14.033 1.342 -4.581 1.00 0.19 ATOM 1608 N TYR 111 12.789 1.801 -4.626 1.00 0.17 ATOM 1608 HN TYR 111 12.789 1.801 -4.626 1.00 0.17 ATOM 1608 CA TYR 111 12.789 1.801 -4.626 1.00 0.17 ATOM 1608 HN TYR 111 12.599 2.716 -4.330 1.00 0.15 ATOM 1610 HA TYR 111 11.0633 0.540 -4.641 1.00 0.15 ATOM 1610 HA TYR 111 11.063 0.540 -4.641 1.00 0.15 ATOM 1611 CB TYR 111 10.437 1.162 -4.297 1.00 0.15 ATOM 1612 HB1 TYR 111 10.437 1.162 -4.297 1.00 0.15 ATOM 1613 HB2 TYR 111 10.437 1.162 -4.297 1.00 0.15 ATOM 1613 HB2 TYR 111 10.648 -0.303 1.00 0.16 ATOM 1613 HB2 TYR 111 10.143 2.200 -4.641 1.00 0.15 ATOM 1613 HB2 TYR 111 10.648 -0.303 1.00 0.16 ATOM 1613 HB2 TYR 111 10.648 -0.303 1.00 0.16 ATOM 1614 CG TYR 111 11.05 1.30 0.500 -4.641 1.00 0.15 ATOM 1615 CD1 TYR 111 10.648 -0.303 1.00 0.10 ATOM 1616 BN TYR 111 10.648 -0.303 1.00 0.10 ATOM 1617 CD2 TYR 111 10.648 -0.303 1.00 0.10 ATOM 1618 HD2 TYR 111 10.648 -0.303 1.00 0.10 ATOM 1620 HB TYR 111 10.648 -0.303 1.00 0.10 ATOM 1631 HB2 HB3	ATOM	1588	CD	LYS	109	20.072	4.574		1.00	
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ATOM 1597 HZ2 LYS 109 23.155 5.660 -9.006 1.00 2.17 ATOM 1598 C LYS 109 16.259 2.052 -6.175 1.00 0.21 ATOM 1599 C LYS 109 15.190 2.100 -6.747 1.00 0.22 ATOM 1600 N GLY 110 16.338 2.124 -4.873 1.00 0.23 ATOM 1601 HN GLY 110 17.212 2.079 -4.432 1.00 0.26 ATOM 1602 CA GLY 110 15.099 2.283 -4.056 1.00 0.26 ATOM 1603 HA1 GLY 110 15.099 2.283 -4.056 1.00 0.22 ATOM 1604 HA2 GLY 110 15.316 2.044 -3.024 1.00 0.23 ATOM 1605 C GLY 110 14.751 3.302 -4.124 1.00 0.23 ATOM 1606 O GLY 110 14.751 3.302 -4.124 1.00 0.23 ATOM 1606 O GLY 110 14.013 1.342 -4.581 1.00 0.19 ATOM 1606 O GLY 110 14.281 0.216 -4.949 1.00 0.20 ATOM 1607 N TYR 111 12.789 1.801 -4.626 1.00 0.17 ATOM 1608 HN TYR 111 12.789 1.801 -4.626 1.00 0.17 ATOM 1609 CA TYR 111 11.683 0.941 -5.136 1.00 0.15 ATOM 1610 HA TYR 111 11.95 0.098 -5.088 1.00 0.16 ATOM 1611 CB TYR 111 10.437 1.162 -4.277 1.00 0.15 ATOM 1612 HBI TYR 111 10.437 1.162 -4.277 1.00 0.15 ATOM 1616 HDI TYR 111 10.437 1.162 -4.277 1.00 0.15 ATOM 1616 HDI TYR 111 10.437 1.162 -4.227 1.00 0.15 ATOM 1616 HDI TYR 111 10.437 1.162 -4.227 1.00 0.15 ATOM 1616 HDI TYR 111 10.648 -0.533 -2.422 1.00 0.17 ATOM 1616 HDI TYR 111 10.648 -0.533 -2.422 1.00 0.17 ATOM 1616 HDI TYR 111 10.648 -0.533 -2.422 1.00 0.17 ATOM 1617 CDZ TYR 111 10.648 -0.533 -2.422 1.00 0.17 ATOM 1618 HDZ TYR 111 10.648 -0.533 -2.02 1.00 0.17 ATOM 1619 CEI TYR 111 10.933 0.540 -4.641 1.00 0.15 ATOM 1620 HEI TYR 111 10.935 -0.868 -1.093 1.00 0.20 ATOM 1620 HEI TYR 111 11.96 0.999 -2.881 1.00 0.20 ATOM 1621 CEZ TYR 111 11.99 0.999 -2.881 1.00 0.20 ATOM 1628 N NSN 112 11.19.99 0.009 -2.201 1.00 0.202 ATOM 1629 CEI TYR 111 11.99 0.999 -2.881 1.00 0.203 ATOM 1624 ON TYR 111 11.99 0.999 -2.881 1.00 0.203 ATOM 1628 N ASN 112 11.190 0.000 0.204 ATOM 1628 N ASN 112 11.190 0.000 0.000 0.100 0.204 ATOM 1628 N ASN 112 11.99 0.000 0.000 0.100	MOTA	1595	HZ1	LYS	109	21.689	6.516	-8.948	1.00	2.22
ATOM 1598 C LYS 109 16.251 5.873 -7.525 1.00 2.34 ATOM 1598 C LYS 109 16.252 2.052 -6.175 1.00 0.20 ATOM 1600 N GLY 109 15.190 2.110 -6.747 1.00 0.20 ATOM 1601 HN GLY 110 16.338 2.124 -4.873 1.00 0.23 ATOM 1601 HN GLY 110 17.212 2.079 -4.432 1.00 0.23 ATOM 1602 CA GLY 110 15.099 2.283 -4.056 1.00 0.22 ATOM 1603 HA1 GLY 110 14.751 3.302 -4.124 1.00 0.25 ATOM 1605 C GLY 110 14.751 3.302 -4.124 1.00 0.25 ATOM 1606 O GLY 110 14.751 3.302 -4.124 1.00 0.25 ATOM 1606 O GLY 110 14.281 0.216 -4.949 1.00 0.20 ATOM 1606 O GLY 110 14.281 0.216 -4.949 1.00 0.20 ATOM 1606 O TYR 111 12.789 1.801 -4.626 1.00 0.17 ATOM 1608 HN TYR 111 12.789 1.801 -4.626 1.00 0.18 ATOM 1609 CA TYR 111 11.683 0.941 -5.136 1.00 0.15 ATOM 1610 HA TYR 111 11.975 -0.098 -5.088 1.00 0.16 ATOM 1611 CB TYR 111 10.437 1.166 -4.277 1.00 0.15 ATOM 1613 HBZ TYR 111 10.437 1.166 -4.277 1.00 0.15 ATOM 1613 HBZ TYR 111 10.745 0.798 -2.844 1.00 0.17 ATOM 1614 CG TYR 111 10.432 2.00 -4.330 1.00 0.16 ATOM 1615 CDI TYR 111 10.432 2.00 -4.330 1.00 0.16 ATOM 1616 HDI TYR 111 10.432 2.00 -4.330 1.00 0.16 ATOM 1616 HDI TYR 111 10.432 2.00 -4.330 1.00 0.16 ATOM 1616 CCZ TYR 111 10.432 2.00 -4.330 1.00 0.16 ATOM 1616 CCZ TYR 111 10.432 2.00 -4.330 1.00 0.16 ATOM 1616 CCZ TYR 111 10.432 2.00 -4.330 1.00 0.16 ATOM 1616 CCZ TYR 111 10.432 2.00 -4.330 1.00 0.20 ATOM 1617 CCZ TYR 111 10.435 -1.301 -3.121 1.00 0.17 ATOM 1618 HDZ TYR 111 10.935 -0.888 1.00 0.30 0.30 ATOM 1629 CCZ TYR 111 11.093 -0.868 1.093 1.00 0.20 ATOM 1629 CCZ TYR 111 11.093 -0.868 1.093 1.00 0.20 ATOM 1629 CCZ TYR 111 11.093 -0.868 1.093 1.00 0.20 ATOM 1629 CCZ TYR 111 11.093 -0.868 1.093 1.00 0.20 ATOM 1629 CCZ TYR 111 11.093 -0.868 1.093 1.00 0.20 ATOM 1629 CCZ TYR 111 11.094 2.204 1.125 1.00 0.17 ATOM 1630 HBZ TYR 111 10.993 -0.868 1.093 1.00 0.20 ATOM 1631 HA ASN 112 11.95 -0.204 1.125 1.00 0.17 ATOM 1632 CC TYR 111 11.094 2.204 1.125 1.00 0.19 ATOM 1634 HB ZASN 112 11.994 2.424 -6.871 1.00 0.15 ATOM 1635 CG ASN 112 11.994 2.424 -6.871 1.00 0.16 ATOM 1636 HBZ ASN 112 11.994 2.424 -6.871 1.00 0.16 ATO	ATOM	1596	HZ2	LYS	109	23.155	5.660	-9.006		
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ATOM 1653 HD12 LEU 113 6.359 4.991 -9.110 1.00 1.00 ATOM 1654 HD13 LEU 113 5.490 3.474 -9.343 1.00 0.97 ATOM 1655 CD2 LEU 113 6.526 5.457 -11.943 1.00 0.20								-10.007	1.00	0.99
ATOM 1654 HD13 LEU 113 5.490 3.474 -9.343 1.00 0.97 ATOM 1655 CD2 LEU 113 6.526 5.457 -11.943 1.00 0.20										
ATOM 1655 CD2 LEU 113 6.526 5.457 -11.943 1.00 0.20		1654					3.474	-9.343		
		1655	CD2	LEU	113		5.457	-11.943		
	MOTA	1656	HD21	i.eii			6 277	-11 274		

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ATOM	1657 HD22 LEU	113	C 020	E 300' +0 030	
			5.930	5.302' -12.830	1.00 1.03
ATOM	1658 HD23 LEU	113	7.539	5.696 -12.231	1.00 1.00
MOTA	1659 C LEU	113	7.320	1.361 -10.743	1.00 0.15
MOTA	1660 O LEU	113	6.203	1.014 -10.419	1.00 0.15
ATOM	1661 N PHE	114	7.928	0.817 -11.762	
ATOM	1662 HN PHE	114			1.00 0.16
			8.822	1.123 -12.020	1.00 0.17
ATOM	1663 CA PHE	114	7.245	-0.250 -12.555	1.00 0.17
MOTA	1664 HA PHE	114	6.338	0.151 -12.980	1.00 0.18
ATOM	1665 CB PHE	114	8.159	-0.720 -13.685	1.00 0.21
ATOM	1666 HB1 PHE	114		1 100 13 071	
			9.077	-1.108 -13.271	1.00 0.22
ATOM	1667 HB2 PHE	114	8.380	0.111 -14.340	1.00 0.22
MOTA	1668 CG PHE	114	7.457	-1.807 -14.464	1.00 0.24
MOTA	1669 CD1 PHE	114	7.545	-3.135 -14.031	1.00 0.35
MOTA	1670 HD1 PHE	114	8.105	-3.376 -13.147	
ATOM	1671 CD2 PHE	114			1.00 0.43
ATOM			6.724	-1.494 - 15.613	1.00 0.24
		114	6.655	-0.470 -15.950	1.00 0.28
MOTA	1673 CE1 PHE	114	6.902	-4.149 -14.741	1.00 0.39
MOTA	1674 HE1 PHE	114	6.975	-5.171 -14.402	1.00 0.50
MOTA	1675 CE2 PHE	114	6.078	-2.512 -16.327	
ATOM	1676 HE2 PHE	114			1.00 0.26
ATOM			5.511	-2.273 -17.214	1.00 0.30
	1677 CZ PHE	114	6.168	-3.839 -15.890	1.00 0.32
MOTA	1678 HZ PHE	114	5.670	-4.623 -16.438	1.00 0.35
MOTA	1679 C PHE	114	6.900	-1.452 -11.676	1.00 0.17
ATOM	1680 O PHE	114	5.842	-2.034 -11.806	
ATOM	1681 N LEU	115			1.00 0.17
MOTA		113	7.774	-1.846 -10.797	1.00 0.18
	1682 HN LEU	115	8.631	-1.380 -10.706	1.00 0.18
ATOM	1683 CA LEU	115	7.463	-3.028 -9.946	1.00 0.20
ATOM	1684 HA LEU	115	7.297	-3.882 -10.579	1.00 0.21
ATOM	1685 CB LEU	115	8.634		
ATOM	1686 HB1 LEU	115			1.00 0.23
			8.237	-3.650 -8.041	1.00 0.26
MOTA	1687 HB2 LEU	115	9.172	-2.387 -8.821	1.00 0.22
ATOM	1688 CG LEU	115	9.612	-4.369 -9.539	1.00 0.28
ATOM	1689 HG LEU	115	10.397	-4.525 -8.812	
MOTA	1690 CD1 LEU	115			
ATOM	1691 HD11 LEU		8.886	-5.702 -9.749	1.00 0.36
	1031 NDII LEU	115	9.551	-6.514 -9.498	1.00 0.99
ATOM	1692 HD12 LEU	115	8.578	-5.795 -10.779	1.00 1.11
ATOM	1693 HD13 LEU	115	8.017	-5.740 -9.109	1.00 1.13
ATOM	1694 CD2 LEU	115	10.249	-3.903 -10.859	
ATOM	1695 HD21 LEU	115		4.761	1.00 0.30
ATOM			10.497	-4.761 -11.466	1.00 1.10
	1696 HD22 LEU	115	11.149	-3.351 -10.645	1.00 1.06
ATOM	1697 HD23 LEU	115	9.567	-3.272 -11.395	1.00 1.01
MOTA	1698 C LEU	115	6.194	-2.748 -9.136	1.00 0.19
MOTA	1699 O LEU	115	5.280	-3.548 -9.106	1.00 0.19
ATOM	1700 N VAL	116			1.00 0.20
ATOM		110	6.130	-1.624 -8.475	1.00 0.18
		116	6.879	-0.993 -8.508	1.00 0.18
MOTA	1702 CA VAL	116	4.919	-1.305 -7.664	1.00 0.19
ATOM	1703 HA VAL	116	4.686	-2.146 -7.028	1.00 0.21
ATOM	1704 CB VAL	116	5.203	-0.078 -6.794	
MOTA	1705 HB VAL	116	5.581		1.00 0.20
ATOM	1706 CG1 VAL			0.722 -7.414	1.00 0.19
		116	3.914	0.381 -6.103	1.00 0.22
MOTA	1707 HG11 VAL	116	3.253	0.832 -6.828	1.00 1.05
MOTA	1708 HG12 VAL	116	4.155	1.105 -5.339	1.00 1.05
ATOM	1709 HG13 VAL	116	3.426	-0.470 -5.650	1.00 1.03
MOTA	1710 CG2 VAL	116	6.246		
MOTA	1711 HG21 VAL	116			1.00 0.21
ATOM	1712 HG22 VAL		7.188	-0.654 -6.221	1.00 1.02
	1/12 HGZZ VAL	116	5.917	-1.317 -5:194	1.00 0.98
ATOM	1713 HG23 VAL	116	6.370	0.382 -5.052	1.00 1.03
MOTA	1714 C VAL	116	3.724	-1.020 -8.582	1.00 0.18
MOTA	1715 O VAL	116	2.615		
ATOM	1716 N ALA	117			1.00 0.19
ATOM			3.934	-0.307 -9.659	1.00 0.17
		117	4.833	0.028 -9.859	1.00 0.16
ATOM	1718 CA ALA	117	2.796	0.007 -10.572	1.00 0.17
ATOM	1719 HA ALA	117	2.064	0.598 -10.044	1.00 0.19
MOTA	1720 CB ALA	117	3.306	0.795 -11.780	
ATOM	1721 HB1 ALA	117		0.733 -11.780	1.00 0.18
ATOM			4.378	0.709 -11.840	1.00 1.05
		117	3.033	1.834 -11.674	1.00 1.01
MOTA	1723 HB3 ALA	117	2.863	0.397 -12.682	1.00 0.98
MOTA	1724 C ALA	117	2.150	-1.291 -11.058	
ATOM	1725 O ALA	117		-1 400 -1 000	1.00 0.17
ATOM			0.956	-1.480 -10.951	1.00 0.19
		118	2.931	-2.187 -11.588	1.00 0.16
ATOM	1727 HN ALA	118	3.893	-2.015 -11.663	1.00 0.16
MOTA	1728 CA ALA	118	2.366	-3.472 -12.083	1.00 0.17
MOTA	1729 HA ALA	118	1.643	-3.273 -12.859	
MOTA	1730 CB ALA	118	3.491		1.00 0.19
ATOM	1731 HB1 ALA			-4.335 -12.653	1.00 0.17
ATOM		118	3.125	-5.338 -12.812	1.00 1.05
		118	4.316	-4.358 -11.956	1.00 1.02
MOTA	1733 HB3 ALA	118	3 824	-3 030 -13 603	1 00 1 03

ATOM .	1734	C ALA	118	1.687	-4.220 -10.935	1.00	0.17
ATOM	1735	_					
			118	0.699	-4.901 -11.124		0.18
MOTA	1736	N HIS	119	2.225	-4.123 -9.75 1	1.00	0.16
MOTA	1737	'HN HIS	119	3.035	-3.585 -9.623		0.16
MOTA	1738	CA HIS	119	1.627	-4.855 -8.599		0.17
MOTA	1739	HA HIS	119	1.576	-5.907 -8.833	1.00	0.18
MOTA	1740	CB HIS	119	2.513	-4.655 -7.368		
	-						0.19
MOTA	1741	HB1 HIS	119	2.547	-3.605 -7.116	1.00	0.19
ATOM	1742	HB2 HIS	119	3.512	-5.005 -7.584		0.20
MOTA	1/43	CG HIS	119	1.950	-5.431 -6.210	1.00	0.21
ATOM	1744	ND1 HIS	119	2.228	-6.775 -6.020	1.00	0.26
ATOM							
	1745	HD1 HIS	119	2.791	-7.336 −6.59 3		0.30
ATOM	1746	CD2 HIS	119	1.128	-5.067 -5.172	1.00	0.20
ATOM	1747	HD2 HIS	119	0.719	-4.079 -5.019		0.21
MOTA	1748	CE1 HIS	119	1.585	-7.168 -4.906	1.00	0.27
MOTA	1749	HE1 HIS	119	1.622	-8.171 -4.509	1.00	0.33
MOTA	1750	NE2 HIS	119	0.899	-6.166 -4.350		
							0.23
MOTA	1751	C HIS	119	0.215	-4.333 -8.299	1.00	0.17
ATOM	1752	O HIS	119	-0.721	-5.101 -8.185	1.00	0.18
ATOM	1753		120				
		N GLU		0.043	-3.044 - 8.160		0.18
MOTA	1754	hn Glu	120	0.801	-2.430 -8.248	3 1.00	0.18
MOTA	1755	CA GLU	120	-1.322	-2.520 -7.860		0.20
ATOM	1756	ha Glu	120	-1.666	-2.977 -6.943	1.00	0.21
MOTA	1757	CB GLU	120	-1.294	-0.999 -7.668	1.00	0.22
MOTA	1758	HB1 GLU	120	-0.719	-0.763 -6.785		
							0.37
MOTA	1759	HB2 GLU	120	-2.302	-0.635 -7.542	2 1.00	0.33
ATOM .	1760	CG GLU	120	-0.663	-0.314 -8.879	1.00	0.41
MOTA	1761	HG1 GLU					
			120	-1.125	-0.668 -9.783	1.00	0.63
MOTA	1762	HG2 GLU	120	0.393	-0.531 -8.899	1.00	0.87
ATOM	1763	CD GLU	120	-0.875			
							0.94
MOTA	1764	OE1 GLU	120	-0.757	1.703 -7.654	1.00	1.67
ATOM	1765	OE2 GLU	120	-1.151	1.816 -9.769	1.00	1.56
MOTA	1766	C GLU	120				
				-2.291	-2.903 -8.984		0.20
ATOM	1767	O GLU	120	-3.432	-3.238 -8.73	7 1.00	0.21
ATOM	1768	N PHE	121	-1.853	-2.872 -10.21		0.19
MOTA	1769	HN PHE	121	-0.928	-2.608 -10.409		0.19
MOTA	1770	CA PHE	121	-2.767	-3.251 -11.33	1.00	0.21
ATOM	1771	HA PHE	121	-3.628	-2.600 -11.31	1 100	
				-3.028	-2.800 -11.31	7 1.00	0.23
MOTA	1772	CB PHE	121	-2.053	-3.130 -12.68	5 1.00	0.22
ATOM	1773	HB1 PHE	121	-2.576	-3.726 -13.41	1.00	0.24
MOTA	1774		121				
		HB2 PHE		-1.041	-3.493 -12.58	7 1.00	0.21
MOTA	1775	CG PHE	121	-2.026	-1.684 -13.14	L 1.00	0.25
ATOM	1776	CD1 PHE	121	-0.804	-1.019 -13.30		
							0.27
MOTA	1777	HD1 PHE	121	0.121	-1.535 -13.113	3 1.00	0.40
ATOM	1778	CD2 PHE	121	-3.227	-1.007 -13.403	3 1.00	0.45
ATOM	1779	HD2 PHE	121		1 513 13 00	1.00	
	_			-4.173	-1.513 -13.28		0.60
MOTA	1780	CE1 PHE	121	-0.781	0.314 -13.73	3 1.00	0.29
ATOM	1781	HE1 PHE	121	0.163	0.824 -13.86		0.39
MOTA	1782						
		CE2 PHE	121	-3.202	0.327 -13.82	3 1.00	0.49
ATOM	1783	HE2 PHE	121	-4.127	0.847 -14.029	1.00	0.68
MOTA	1784	CZ PHE	121	-1.979	0.988 -13.99		0.34
ATOM				1.373			0.34
	1785	HZ PHE	121	-1.961	2.017 -14.32	L 1.00	0.38
MOTA	1786	C PHE	121	-3.228	-4.693 -11.12	1.00	0.20
MOTA	1787	O PHE	121	-4.374			
					-5.027 -11.346		0.21
ATOM	1788	n Gly	122	-2.344	-5.551 -10.69		0.18
MOTA	1789	HN GLY	122	-1.424	-5.262 -10.514		0.17
MOTA	1790	CA GLY	122				
				-2.737	-6.970 -10.46		0.20
MOTA	1791	HA1 GLY	122	-1.890	-7.523 -10.093	2 1.00	0.21
MOTA	1792	HA2 GLY	122	-3.072	-7.404 -11.39		0.21
ATOM	1793						
		C GLY	122	-3.867	-7.022 -9.43	5 1.00	0.20
MOTA	1794	O GLY	122	-4.823	-7.756 -9.589	9 1.00	0.22
MOTA	1795	N HIS	123	-3.778			
					-6.240 -8.39		0.20
MOTA	1796	HN HIS	123	-3.005	-5.644 -8.28	7 1.00	0.20
MOTA	1797	CA HIS	123	-4.864	-6.243 -7.37		0.22
ATOM	1798		123		D OFF		
				-5.047	-7.255 -7.04	2 1.00	0.23
MOTA	1799	CB HIS	123	-4.456	-5.382 -6.17	1.00	0.25
MOTA	1800	HB1 HIS	123	-5.324			
						_ : : . :	0.30
MOTA	1801	HB2 HIS	123	-4.041	-4.449 -6.52	7 1.00	0.25
MOTA	1802	CG HIS	123	-3.427	-6.108 -5.35		0.27
MOTA	1803	ND1 HIS	123				
				-3.736	-7.247 -4.628		0.37
MOTA	1804	HD1 HIS	123	-4.611	-7.685 -4.58	1.00	0.45
MOTA	1805	CD2 HIS	123	-2.096			0.25
					-5.866 -5.12		
MOTA	1806	HD2 HIS	123	-1.532	-5.046 -5.54	5 1.00	0.27
MOTA	1807	CE1 HIS	123	-2.614	-7.644 -4.00		0.38
MOTA	1808	HE1 HIS	123	_0 663			
				-2.553	-8.514 -3.36		0.47
ATOM	1809	NE2 HIS	123	-1.584	-6,837 -4.26	9 1.00	0.29
MOTA	1810	C HIS	123	-6 137	-5 671 -7 00	חח ו	V, 33

MOTA	1811	0	HIS	123	-7.229	-6.148	-7.755	1.00	0.25
ATOM	1812	N	SER	124	-6.002	-4.646	-8.788	1.00	0.23
	1813			124	-5.110	-			0.23
MOTA		HN	SER			-4.278	-8.962	1.00	0.22
MOTA	1814	CA	SER	124	-7.196	-4.030	-9.429	1.00	0.25
MOTA	1815	HA	SER	124	-7.928	-3'.790	-8.672	1.00	0.27
MOTA	1816	CB	SER	124 .	-6.778	-2.751	-10.156	1.00	0.27
ATOM	1817	HB1	SER	124	-6.219	-2.119	-9.478	1.00	0.29
ATOM	1818	HB2	SER	124	-7.654			1.00	0.29
							-10.494		
MOTA	1819	OG	SER	124	-5.975		-11.279	1.00	0.25
ATOM	1820	HG	SER	124	-6.545	-3.131	-12.050	1.00	0.88
MOTA	1821	C.	SER	124	-7.805	-5.006	-10.437	1.00	0.24
ATOM	1822	0	SER	124	-8.975		-10.755	1.00	0.26
ATOM	1823	N	LEU	125	-7.022		-10.952	1.00	0.22
ATOM	1824			125			-10.690		
		HN	LEU		-6.078			1.00	0.21
MOTA	1825	CA	LEU	125	-7.562		-11.949	1.00	0.23
MOTA	1826	HA	LEU	125	-8.285		-12.568	1.00	0.24
MOTA	1827	CB	LEU	125	-6.420	-7.398	-12.827	1.00	0.22
MOTA	1828	HB1	LEU	125	-6.759	-8.247	-13.398	1.00	0.24
MOTA	1829		LEU	125	-5.594		-12.197	1.00	0.22
ATOM	1830	CG	LEU	125	-5.956		-13.779	1.00	0.22
MOTA	1831	HG	LEU	125	-5.928	-5.343	-13.241	1.00	0.24
MOTA	1832		LEU	125	-4.556		-14.302	1.00	0.25
ATOM	1833	HD11	LEU	125	-4.588	-7.515	-14.874	1.00	0.99
ATOM	1834	HD12	LEU	125	-3.879	-6.719	-13.471	1.00	1.00
ATOM	1835	HD13	LEU	125	-4.215		-14.933	1.00	1.05
ATOM	1836		LEU	125	-6.913		-14.976	1.00	0.24
ATOM									
		HD21		125	-7.793	-5.604	-14.682	1.00	1.05
MOTA	1838	HD22	LEU	125	-7.201	-7.135	-15.324	1.00	1.00
MOTA	1839	HD23	LEU	125	-6.415	-5.627	-15.775	1.00	1.03
MOTA	1840	С	LEU	125	-8.256	-8.044	-11.234	1.00	0.24
MOTA	1841	O	LEU	125	-8.790		-11.864	1.00	0.33
MOTA	1842	N	GLY	126	-8.277	-8.035	-9.927	1.00	
									0.24
MOTA	1843	HN	GLY	126	-7.858	-7.298	-9.435	1.00	0.29
MOTA	1844	CA	GLY	126	-8.968	-9.132	-9.185	1.00	0.27
MOTA	1845	HA1	GLY	126	-9.748	-9.545	-9.807	1.00	0.29
MOTA	1846	HA2	GLY	126	-9.408	-8.727	-8.285	1.00	0.29
MOTA	1847	С	GLY	126	-7.985	-10.245	-8.809	1.00	0.26
MOTA	1848	ŏ	GLY	126	-8.377	-11,268	-8.283	1.00	0.30
MOTA									
	1849	N	LEU	127		-10.068	-9.063	1.00	0.23
MOTA	1850	HN	LEU	127	-6.410	-9.239	-9.484	1.00	0.22
MOTA	1851	CA	LEU	127	-5.744	-11.138	-8.700	1.00	0.25
MOTA	1852	HA	LEU	127	-6.212	-12.099	-8.815	1.00	
ATOM	1853	CB	LEU	127		-11.052	-9.602	1.00	0.23
MOTA	1854		LEU	127	-3.733				
						-11.696	-9.211	1.00	0.25
MOTA	1855		LEU	127		-10.033	-9.602	1.00	0.22
MOTA	1856	CG	LEU	127			-11.045	1.00	0.24
MOTA	1857	HG	LEU	127	-5.707	-10.915	-11.384	1.00	0.23
MOTA	1858	CD1	LEU	127		-11.159	-11.962	1.00	0.24
MOTA	1859	HD11		127			-12.868	1.00	1.00
MOTA	1860	HD12		127					
MOTA							-12.208	1.00	1.02
		HD13		127	-2.962	-10.491	-11.460	1.00	1.03
MOTA	1862	CD2	LEU	127	-5.150	-12.980	-11.109	1.00	0.30
ATOM	1863	HD21	LEU	127	-5.021	-13.334	-12.121	1.00	1.04
ATOM	1864	HD22	LEU	127			-10.805	1.00	1.11
ATOM		HD23		127			-10.454	1.00	1.03
ATOM	1866	C	LEU	127	_E 21E	-10.969	-7.241	1.00	0.28
ATOM	1867								
		0	LEU	127	-5.245	-9.872	-6.723	1.00	0.32
ATOM	1868	N	ASP	128		-12.059	-6.581	1.00	0.32
MOTA	1869	HN	ASP	128		-12.928	-7.029	1.00	0.34
MOTA	1870	CA	ASP	128		-11.997	-5.154	1.00	0.39
ATOM	1871	HA	ASP	128		-11.046	-4.728	1.00	0.40
MOTA	1872	СВ	ASP	128		-13.130	-4.375		
								1.00	0.48
MOTA	1873		ASP	128	-4.779	-14.064	-4.600	1.00	0.48
ATOM	1874		ASP	128	-6.311	-13.193	-4.661	1.00	0.50
ATOM	1875	CG	ASP	128	-5.171	-12.854	-2.873	1.00	0.55
MOTA	1876		ASP	128		-12.980	-2.339	1.00	1.23
ATOM	1877		ASP	128		-12.521	-2.283		
ATOM	1878			128				1.00	1.22
		C	ASP			-12.159	-5.082	1.00	0.37
MOTA	1879	0	ASP	128	-2.424	-12.387	-6.080	1.00	0.59
MOTA	1880	N	HIS	129	-2.507	-12.042	-3.914	1.00	0.23
MOTA	1881	HN	HIS	129		-11.856	-3.118	1.00	0.32
MOTA	1882	CA	HIS	129		-12.189	-3.797	1.00	0.22
MOTA	1883	HA	HIS	129		-11.439			
MOTA	1884	CB		129			-4.401	1.00	0.21
			HIS		-0.000	-12.019	-2.335	1.00	0.23
ATOM	1885	_	HIS	129	0.430	-12.302	-2.227	1.00	0.24
MOTA	1886	HB2	HIS	129	-1.217	-12.653	-1.710	1.00	0.25
MOTA	1887	CG	HIS	129		-10.585	-1.912	1.00	0.22

ATOM .	1888	ND1 H	IS 129	-1 962	-10.161	-1.156	1.00	0.35
	1889							
ATOM		HD1 H			-10.720	-0.841	1.00	0.53
MOTA	1890	CD2 H		-0.007	-9.468	-2.118	1.00	0.34
MOTA	1891	HD2 H	IS 129	0:918	-9.447	-2.673	1.00	0.54
ATOM	1892	CE1 H		-1.711	-8.842	-0.936	1.00	0.31
MOTA	1893	HE1 H		-2.406	-8.239	-0.370	1.00	0.44
MOTA	1894	NE2 H	IS 129	-0.597	-8.369	-1.501	1.00	0.28
MOTA	1895	C H	IS 129		-13.584	-4.277	1.00	0.24
MOTA	1896				-14.568	-3.991	1.00	0.28
MOTA	1897	n s	ER 130	0.474	-13.671	-4.999	1.00	0.24
MOTA	1898	HN S	ER 130	0.984	-12.862	-5.210	1.00	0.23
MOTA	1899		ER 130		-14.996	-5.498		0.29
			130				1.00	
MOTA	1900		ER 130		-15.710	-5.464	1.00	
MOTA	1901	CB S	ER 130	1.442	-14.852	-6.938	1.00	0.32
ATOM	1902	HB1 S	ER 130	2.201	-14.082	-6.982	1.00	0.31
ATOM	1903							
			ER 130	0.618	-14.577	-7.576	1.00	0.35
MOTA	1904		ER 130	1.980	-16.092	-7.378	1.00	0.40
MOTA	1905	HG S	ER 130	1.254	-16.714	-7.469	1.00	0.97
ATOM	1906	C S	ER 130		-15.484	-4.609	1.00	0.28
ATOM								
	1907		ER 130		-14.696	-4.009	1.00	0.29
ATOM	1908	N L	YS 131	2.287	-16.775	-4.514	1.00	0.30
ATOM	1909	HN L	YS 131	1.705	-17.393	-5.003	1.00	0.32
ATOM	1910		YS 131		-17.310	-3.656		
					-17.310		1.00	0.32
MOTA	1911		YS 131		-16.567		1.00	0.34
MOTA	1912	CB L	YS 131	2.903	-18.572	-2.936	1.00	0.39
ATOM .	1913	HB1 L	YS 131	3 714	-18.988	-2.355	1.00	0.42
	1914	HB2 L	YS 131					
				2.572	-19.298	-3.664	1.00	0.40
MOTA	1915	CG L	YS 131	. 1.743	-18.214	-2.003	1.00	0.45
MOTA	1916	HG1 L	YS 131	0.932	-17.798	-2.581	1.00	0.79
ATOM	1917	HG2 L			-17.488	-1.276	1.00	1.01
	1918			2.077	,-17.400			
MOTA			YS 131	1.255	-19.472	-1.280	1.00	1.18
MOTA	1919	HD1 L	YS 131	2.064	-19.890	-0.698	1.00	1.86
ATOM	1920	HD2 L	YS 131	0.921	-20.199	-2.006	1.00	1.66
MOTA	1921		YS 131		-19.108			
				0.096	-13.108		1.00	1.52
MOTA	1922	HE1 L			-18.908	-0.937	1.00	1.92
ATOM	1923	HE2 L	YS 131	0.355	-18.229	0.222	1.00	1.93
MOTA	1924		YS 131		-20.242	0.581	1.00	2.23
ATOM								
	1925	HZ1 L			-20.109	1.030	1.00	2.72
MOTA	1926	HZ2 L	YS 131	0.565	-20.272	1.313	1.00	2.53
MOTA	1927	HZ3 L	YS 131	-0.174	-21.135	0.050	1.00	2.72
MOTA	1928		YS 131		-17.649	-4.521		0.31
							1.00	
MOTA	1929		YS 131		-18.116	-4.027	1.00	0.34
ATOM	1930	N A	SP 132	4.532	-17.411	-5.804	1.00	0.29
MOTA	1931	HN A	SP 132	3.717	-17.028	-6.190	1.00	0.28
ATOM	1932			5 700	17.020			
					-17.719	-6.674	1.00	0.30
MOTA	1933	HA A	SP 132	6.187	-18.601	-6.302	1.00	0.32
ATOM	1934	CB A	SP 132	5.225	-17.970	-8.108	1.00	0.32
MOTA	1935	HB1 A			-17.090	-8.483	1.00	0.31
				4.727	-17.090			
MOTA	1936	HB2 A		4.539	-18.804	-8.118	1.00	0.34
MOTA	1937		SP 132	6.430	-18.289	-8.996	1.00	0.35
ATOM	1938	OD1 A	SP 132	6.457	-19.371	-9.558	1.00	1.10
MOTA	1939	OD2 A	SP 132	7 306	-17.446			
			SF 134	7.300	-17.440	-9.097	1.00	1.15
MOTA	1940		SP 132		-16.501	-6.659	1.00	0.28
MOTA	1941	O A	SP 132		-15.399	-6.939	1.00	0.28
MOTA	1942	N P	RO 133	7.930	-16.658	-6.328	1.00	0.30
MOTA	1943		RO 133	8.852	-15.484	-6.296	1.00	0.31
MOTA	1944							
			RO 133		-14.766	-5.566	1.00	0.32
MOTA	1945		RO 133	10.173	-16.097	-5.832	1.00	0.36
MOTA	1946	HB1 P	RO 133	10.441	-15.694	-4.867	1.00	0.36
ATOM	1947	HB2 P		10 040	-15.869	-6.549	1.00	0.41
ATOM	1948							
			RO 133		-17.615	-5.721	1.00	0.42
ATOM	1949	HG1 P	RO 133	10.293	-17.940	-4.732	1.00	0.51
MOTA	1950	HG2 P	RO 133	10.630	-18.103	-6.457	1.00	0.51
ATOM	1951		RO 133	0 640	-17.972			
				0.340	-11.912	-5.969	1.00	0.35
MOTA	1952	HD2 P	RO 133		-18.679	-6.785	1.00	0.34
ATOM	1953	HD1 · P	RO 133	8.091	-18.362	-5.069	1.00	0.38
MOTA	1954		RO 133		-14.810	-7.662		0.31
ATOM	1955			5.032	-14.010		1.00	
			RO 133	9.496	-13.691	-7.749	1.00	0.34
MOTA	1956	N G	LY 134	8.684	-15.477	-8.729	1.00	0.32
ATOM	1957		LY 134	8.320	~16.382	-8.647	1.00	0.35
ATOM	1958		LY 134	8 050	-14.856	-10 074		0.33
				0.000	4.000	-10.0/4	1.00	0.34
MOTA	1959	HA1 G		9.048	-15.630	-10.803	1.00	0.37
ATOM	1960	HA2 G	LY 134	9.701	-14.177	-10.047	1.00	0.36
MOTA	1961		LY 134	7.598	-14.087	-10 471	1.00	0.29
MOTA	1962	_		7.530	_12 400	-10.471		
				1.203	-13.420	-11.486	1.00	0.29
ATOM	1963		LA 135		-14.168	-9.683	1.00	0.27
MOTA	1964	HN A	LA 135		-14.709	-8.867	1 00	0.28
			_					

MOTA	1965	CA	ALA	135	5.312	-13.434	-10 026	1.00	0.24
MOTA	1966	HA	ALA	135			-11.099	1.00	0.25
ATOM	1967	CB	ALA	135	4.109	-14.151	-9.410		
ATOM	1968	HB1		135	3.633	-14.765	-10.160	1.00	0.25
ATOM	1969	HB2	ALA	135	3.405			1.00	1.07
MOTA	1970					-13.421	-9.041	1.00	1.01
		нвз	ALA	135	4.442	-14.774	-8.593	1.00	1.04
ATOM	1971	C	ALA	135	5.388	-12.007	-9,479	1.00	0.21
ATOM	1972	0	ALA	135		-11.760	-8.440	1.00	0.23
MOTA	1973	N	LEU	136		-11.067		1.00	0.22
MOTA	1974	HN	LEU	136	4.330	-11.286	-10.996	1.00	0.24
MOTA	1975	CA	LEU	136	4.830	-9.660	-9.676	1.00	0.23
MOTA	1976	HA	LEU	136	5.842	-9.382	-9.427	1.00	0.25
MOTA	1977	CB	LEU	136	4.279		-10.761	1.00	0.25
ATOM	1978		LEU	136	4.193		-10.365	1.00	0.27
ATOM	1979		LEU	136	3.302		-11.064		
MOTA	1980	CG	LEU	136	5.213		-11.980	1.00	0.26
ATOM	1981	НG	LEU	136				1.00	0.26
MOTA	1982				5.312		-12.368	1.00	0.29
		CDI	LEU	136	4.624		-13.063	1.00	0.29
ATOM		HD11		136	3.546		-13.030	1.00	1.06
ATOM		HD12		136	4.967		-14.033	1.00	1.05
MOTA		HD13		136	4.944	-6.784	-12.893	1.00	1.06
MOTA	1986	CD2	LEU	136	6.592	-8.176	-11.578	1.00	0.32
MOTA	1987	HD21	LEU	136	6.485	-7.477	-10.762	1.00	1.05
ATOM	1988	HD22	LEU	136	7.046	-7.677		1.00	1.09
ATOM	1989	HD23	LEU	136	7.220		-11.269	1.00	0.97
MOTA	1990	C	LEU	136	3.954	-9.556	-8.427	1.00	0.25
ATOM	1991	ŏ	LEU	136	4.201	-8.761	-7.542		
ATOM	1992	Ň	MET	137				1.00	0.30
ATOM	1993					-10.353	-8.357	1.00	0.28
		HN	MET	137	2.744	-10.981	-9.087	1.00	0.31
MOTA	1994	CA	MET	137	2.016	-10.309	-7.177	1.00	0.33
MOTA	1995	HA	MET	137	1.768	-9.283	-6.959	1.00	0.38
MOTA	1996	CB	MET	137	0.734	-11.087	-7.494	1.00	0.42
MOTA	1997	HB1	MET	137	0.118	-11.136	-6.615	1.00	0.57
MOTA	1998	HB2	MET	137	0.995	-12.089	-7.803	1.00	0.50
MOTA	1999	CG	MET	137	-0.035	~10.391	-8.625	1.00	0.58
ATOM	2000	HG1		137	-0.909	-10.975	-8.875	1.00	1.13
MOTA	2001		MET	137		-10.311	-9.494	1.00	1.22
MOTA	2002	SD	MET	137	-0.551	-8.729			
ATOM	2003	CE	MET	137			-8.108	1.00	0.83
ATOM	2004				-2.048	-9.184	-7.194	1.00	0.39
			MET	137	-2.231	-8.450	-6.426	1.00	
ATOM	2005	HE2	MET	137	-1.927	-10.151	-6.741	1.00	1.07
ATOM	2006	HE3	MET	137	 -2.885	-9.212	-7.872	1.00	1.06
ATOM	2007	C	MET	137	2.700	-10.925	-5.951	1.00	0.27
MOTA	2008	0	MET	137	2.050	-11.287	-4.990	1.00	0.28
ATOM	2009	N	PHE	138	4.000	-11.042	-5.964	1.00	
ATOM	2010	HN	PHE	138	4.514	-10.741	-6.743	1.00	0.28
ATOM	2011	CA	PHE	138	4.699	-11.628	-4.785	1.00	0.23
ATOM	2012	HA	PHE	138	4.225	-12.557	-4.534	1.00	0.26
ATOM	2013	СВ	PHE	138	6.167	-11.877			
ATOM	2014	HB1		138			-5.152	1.00	0.25
ATOM	2015					-10.945	-5.104	1.00	0.24
			PHE	138		-12.270	-6.156	1.00	0.27
MOTA	2016	CG	PHE	138	6.790	-12.873	-4.194	1.00	0.28
MOTA	2017	CD1		138		-14.184	-4.113	1.00	0.32
ATOM	2018	HD1		138		-14.490	-4.731	1.00	0.33
MOTA	2019		PHE	138	7.871	-12.486	-3.392	1.00	0.30
MOTA	2020	HD2	PHE	138	8.256	-11:481	-3.455	1.00	0.30
MOTA	2021	CE1	PHE	138		-15.100	-3.230	1.00	0.38
MOTA	2022	HE1	PHE	138		-16.109	-3.168	1.00	0.42
ATOM	2023	CE2	PHE	138	8.455	-13.404	-2.511	1.00	0.36
ATOM	2024	HE2		138	9 288	-13.104	-1.894	1.00	0.39
MOTA	2025	CZ	PHE	138		-14.710			
MOTA	2026	H2	PHE	138	0 411	15 417	-2.430	1.00	0.39
ATOM	2027				0.411	-15.417	-1.749	1.00	0.44
		C	PHE	138		-10.615	-3.615	1.00	0.20
ATOM	2028	0	PHE	138	4.874	-9.447	-3.808	1.00	0.22
ATOM	2029	N	PRO	139		-11.019	-2.421	1.00	0.22
MOTA	2030	CA	PRO	139		-10.048	-1.291	1.00	0.25
MOTA	2031	HA	PRO	139	3.262	-9.340	-1.509	1.00	0.27
ATOM	2032	CB	PRO	139		-10.936	-0.127	1.00	0.31
MOTA	2033	HB1		139		-10.638	0.199	1.00	0.38
ATOM	2034		PRO	139		-10.835	0.691	1.00	
MOTA	2035	CG	PRO	139		-12.392			0.42
MOTA	2036	HG1		139			-0.597	1.00	0.33
ATOM	2037	_				-12.812	-0.396	1.00	0.41
MOTA			PRO	139		-12.961	-0.074	1.00	0.42
	2038	CD	PRO	139		-12.435	-2.102	1.00	0.27
MOTA	2039	HD2		139		-13.100	-2.318	1.00	0.28
MOTA	2040	HD1		139	2.946	-12.732	-2.637	1.00	0.30
MOTA	2041	C	Udd	130	E 337	-0 3VE	0 006	4 00	2 20

MOTA	2042	0	PRO	139	5.302	0 251	-0 100		0.44
ATOM						-8.351	-0.173	1.00	0.44
	2043	N	ILE	140	6.467	-9.726	-1.437	1.00	0.24
MOTA	2044	HN	ILE	140	6.474	-10.500	-2.038	1.00	0.37
MOTA	2045	CA	ILE	140	7.749	-9.031	-1.094	1.00	0.23
MOTA	2046	HA	ILE	140	7.572	-8.308			
	2047						-0.312	1.00	0.24
MOTA		CB	ILE	140		-10.054	-0.600	1.00	0.25
MOTA	2048	HB	ILE	140	8.978	-10.770	-1.379	1.00	0.25
MOTA	2049	CG1	ILE	140	8.207	-10.768	0.632	1.00	0.29
ATOM	, 2050	WC11	ILE	140		-11.196			
							0.384	1.00	0.32
'MOTA			ILE	140	8.084	-10.055	1.434	1.00	0.33
MOTA	2052	CG2	ILE	140	10.070	-9.332	-0.214	1.00	0.26
MOTA	2053	HG21	ILE	140	9.850	-8.567	0.517	1.00	1.04
MOTA	2054	HG22	ILE	140					
					10.505	-8.876	-1.090	1.00	1.06
MOTA		HG23	ILE	140		-10.040	0.207	1.00	1.04
MOTA	2056	CD1	ILE	140	9.156	-11.883	1.082	1.00	0.30
ATOM	2057	HD11	ILE	140		-12.250	0.236	1.00	1.08
ATOM		HD12	ILE	140	8.582				
						-12.691	1.511	1.00	0.98
MOTA		HD13	ILE	140		-11.495	1.824	1.00	1.08
MOTA	2060	С	ILE	140	8.284	-8.301	-2.329	1.00	0.22
MOTA	2061	0	ILE	140	8.265	-8.817	-3.429	1.00	0.22
MOTA	2062	N	TYR	141	8.745	-7.092			
							-2.150	1.00	0.21
MOTA	2063	HN	TYR	141	8.736	-6.696	-1.254	1.00	0.22
MOTA	2064	CA	TYR	141	9.265	-6.303	-3.304	1.00	0.21
MOTA	2065	HA	TYR	141	8.560	-6.348	-4.120	1.00	0.20
ATOM	2066	CB	TYR	141	9.444	-4.847	-2.865		
								1.00	0.21
MOTA	2067	HB1	TYR	141	10.050	-4.810	-1.972	1.00	0.22
MOTA	2068	HB2	TYR	141	8.476	-4.413	-2.661	1.00	0.22
MOTA	2069	CG	TYR	141	10.122	-4.066	-3.962	1.00	0.23
MOTA	2070	CD1		141	11.515	-4.104			
MOTA	2071						-4.089	1.00	0.25
		HD1	TYR	141	12.104		-3.404	1.00	0.26
MOTA	2072	CD2	TYR	141	9.359	-3.298	-4.848	1.00	0.24
MOTA	2073	HD2	TYR	141	8.284	-3.268	-4.750	1.00	0.25
MOTA	2074	CE1	TYR	141	12.146	-3.376	-5.103	1.00	
MOTA									0.28
	2075		TYR	141	13.221	-3.405	-5.201	1.00	0.32
MOTA	2076	CE2	TYR	141	9.989	-2.569	-5.862	1.00	0.27
ATOM	2077	HE2	TYR	141	9.401	-1.975	-6.544	1.00	0.30
MOTA	2078	CZ	TYR	141	11.383	-2.608	-5.990	1.00	
ATOM	2079				10.005				0.29
		OH	TYR	141	12.005	-1.892	-6.991	1.00	0.33
MOTA	2080	HH	TYR	141	12.781	-2.385	-7.269	1.00	0.90
MOTA	2081	С	TYR	141	10.615	-6.864	-3.761	1.00	0.22
MOTA	2082	0	TYR	141	11.522	-7.050	-2.973		
ATOM	2083							1.00	0.23
		N	THR	142	10.750	-7.130	-5.035	1.00	0.22
MOTA	2084	HN	THR	142	10.002	-6.968	-5.648	1.00	0.22
MOTA	2085	CA	THR	142	12.035	-7.675	-5.563	1.00	0.24
ATOM	2086	HA	THR	142	12.835	-7.447	-4.874	1.00	0.25
ATOM	2087	CB							
			THR	142	11.917	-9.193	-5.723	1.00	0.25
ATOM	2088	HB	THR	142	11.645	-9.635	-4.777	1.00	0.26
ATOM	2089	OG1	THR	142	13.165	-9.720	-6.152	1.00	0.29
ATOM	2090	HG1	THR	142	13.274	-9.505	-7.081	1.00	0.97
MOTA	2091	CG2	THR	142	10.840	-9.517			
MOTA							-6.760	1.00	0.25
	2092	HGZI	THR	142	10.577	-10.562	-6.691	1.00	1.04
MOTA	2093	HG22	THR	142	11.217	-9.304	-7.749	1.00	1.05
MOTA	2094	HG23	THR	142	9.965	-8.913	-6.570	1.00	1.06
ATOM	2095		THR	142	12.339				
ATOM	2096	-				-7.040	-6.924	1.00	0.23
		0	THR	142	11.454	-6.810	-7.724	1.00	0.23
MOTA	2097	N	TYR	143	13.586	-6.758	-7.195	1.00	0.25
MOTA	2098	HN	TYR	143	14.285	-6.955	-6.538	1.00	0.27
MOTA	2099	CA	TYR	143	13.948	-6.144	-8.506	1.00	0.26
MOTA	2100	HA	TYR	143	13.174				0.20
ATOM	2101			143			-8.804	1.00	0.25
		CB	TYR		15.277	-5.395	-8.370	1.00	0.29
ATOM	- 2102	HB1	TYR	143	16.072	-6.104	-8.190	1.00	0.33
MOTA	2103	HB2	TYR	143	15.217	-4.704	-7.542	1.00	0.30
ATOM	2104	CG	TYR	143	15.563				
ATOM	2105					-4.633	-9.642	1.00	0.27
		CD1		143	14.931	-3.406	-9.880	1.00	0.25
MOTA	2106		TYR	143	14.234	-3.008	-9.156	1.00	0.26
MOTA	2107	CD2	TYR	143	16.466		-10.581	1.00	0.31
MOTA	2108	HD2	TYR	143	16.954	-6 004	-10.398		
ATOM	2109					-0.034	-10.338	1.00	0.35
			TYR	143	15.201	-2.695	-11.055	1.00	0.26
MOTA	2110	HE1	TYR	143	14.713	-1.749	-11.238	1.00	0.28
ATOM	2111	CE2	TYR	143	16.735	-4.436	-11.756	1.00	0.31
ATOM	2112	HE2	TYR	143	17.432	-4 533	-12.480		0.34
ATOM	2113					-4.033	-12.480	1.00	0.36
		CZ	TYR	143	16.103	210. د-	-11.994	1.00	0.28
MOTA	2114	OH	TYR	143	16.369	-2.509	-13.152	1.00	0.30
ATOM	2115	HH	TYR	143	17.068	-2.969	-13.624	1.00	0.95
MOTA	2116	C	TYR	143	14.080	-7.244	-9.563		
ATOM	2117	ō	TYR	143				1.00	0.27
ATOM					14.552	-8.328	-9.283	1.00	0.31
	2118	N	ጥዘם	144	13 660	-6 076	10 770	1 00	~ ~~

ATOM	2119	HN	THR	144	13.277	-6.096	-10.972	1.00	0.32
MOTA	2120	CA	THR	144	13.753		-11.847	1.00	0.32
MOTA	2121		THR	144	14.479				
		HA					-11.573	1.00	0.35
MOTA	2122	СВ	THR	144	12.385		-12.031	1.00	0.37
MOTA	2123	HB	THR	144	11.922		-11.067	1.00	0.84
MOTA	2124	OG1	THR	144	12.549	-9.918	-12.683	1.00	1.00
MOTA	2125	HG1	THR	144	13.280	-9.836	-13.301	1.00	1.42
MOTA	2126	CG2	THR	144	11.499	-7.757	-12.882	1.00	0.82
MOTA	2127	HG21	THR	144	10.461		-12.699	1.00	1.51
MOTA		HG22	THR	144	11.724		-13.927	1.00	1.24
MOTA		HG23	THR	144	11.687		-12.622		
MOTA	2130	C	THR	144				1.00	1.49
	2131				14.169		-13.165	1.00	0.34
MOTA		0	THR	144	13.922		-13.392	1.00	0.32
MOTA	2132	N	GLY	145	14.789	-8.094	-14.043	1.00	0.43
MOTA	2133	HN	GLY	145	14.971	-9.037	-13.846	1.00	0.49
MOTA	2134	CA	GLY	145	15.205	-7.510	-15.350	1.00	0.49
MOTA	2135	HA1	GLY	145	15.842	-8.207	-15.872	1.00	0.57
MOTA	2136	HA2	GLY	145	15.742	-6.587	-15.178	1.00	0.50
ATOM	2137	С	GLY	145	13.957	-7.233	-16.191	1.00	0.47
ATOM	2138	0	GLY	145	13.331		-16.706	1.00	0.53
MOTA	2139	Ň	LYS	146	13.583	-5.990	-16.322		
ATOM	2140	HN	LYS	146	14.097	-5.277		1.00	0.46
ATOM	2141						-15.889	1.00	0.48
MOTA	2142	CA	LYS	146	12.367		-17.116	1.00	0.49
		HA	LYS	146	11.578	-6.350	-16.876	1.00	0.51
ATOM	2143	CB	LYS	146	11.911		-16.764	1.00	0.52
MOTA	2144		LYS	146	10.973	-4.032	-17.254	1.00	0.58
MOTA	2145	HB2	LYS	146	12.657	-3.533	-17.103	1.00	0.57
MOTA	2146	CG	LYS	146	11.744		-15.238	1.00	0.55
MOTA	2147	HG1	LYS	146	12.690		-14.798	1.00	0.83
MOTA	2148		LYS	146	11.442	-5.089	-14.849	1.00	1.14
MOTA	2149	CD	LYS	146	10.684		-14.854		
ATOM	2150		LYS	146				1.00	1.23
	2151				10.308	-3.309	-13.871	1.00	1.78
MOTA			LYS	146	9.865	-3.098	-15.556	1.00	1.79
MOTA	2152	CE	LYS	146	11.298	-1.671	-14.828	1.00	2.01
MOTA	2153		LYS	146	11.615	-1.439	-13.822	1.00	2.47
ATOM	2154	HE2	LYS	146	10.556	-0.952	-15.143	1.00	2.39
ATOM	2155	NZ	LYS	146	12.468		-15.745	1.00	2.91
MOTA	2156	HZ1	LYS	146	12.847	-0.633	-15.750	1.00	3.39
MOTA	2157	HZ2	LYS	146	12.170	-1.861	-16.707	1.00	3.28
MOTA	2158		LYS	146	13.205	-2 257	-15.420		
MOTA	2159	C	LYS	146	12.677			1.00	3.27
ATOM	2160	ŏ	LYS				-18.613	1.00	0.59
MOTA	2161			146	11.845	-5.426	-19.444	1.00	1.16
		N	SER	147	13.868		-18.967	1.00	0.78
MOTA	2162	HN	SER	147	14.530		-18.283	1.00	1.26
ATOM	2163	CA	SER	147	14.226	-6.214	-20.413	1.00	0.87
ATOM	2164	HA	SER	147	14.141	-5.234	-20.859	1.00	1.03
MOTA	2165	CB	SER	147	15.667		-20.554	1.00	0.95
MOTA	2166	HB1	SER	147	15.798		-21.530	1.00	1.42
MOTA	2167	HB2	SER	147	15.871	-7.445	-19.794	1.00	1.34
MOTA	2168	OG	SER	147	16.561		-20.395	1.00	1.71
MOTA	2169	HG	SER	147	17.097		-21.190	1.00	
MOTA	2170	c	SER	147	13.288		-21.138	1.00	2.16
MOTA	2171	ŏ	SER	147	12.747				0.79
MOTA	2172						-22.178	1.00	1.40
MOTA	2173		HIS	148	13.098		-20.605	1.00	0.66
		HN	HIS	148	13.551		-19.768	1.00	1.10
MOTA	2174	CA	HIS	148	12.199		-21.272	1.00	0.65
ATOM	2175	HA	HIS	148	11.629		-22.048	1.00	0.74
MOTA	2176	CB	HIS	148	13.041	-10.479	-21.887	1.00	0.79
MOTA	2177		HIS	148	12.401	-11.312	-22.138	1.00	1.14
MOTA	2178	HB2	HIS	148		-10.801		1.00	1.30
MOTA	2179	CG	HIS	148	13.723		-23.130	1.00	1.66
MOTA	2180		HIS	148	13.104		-24.019	1.00	
MOTA	2181	HDI	HIS	148	12.200				2.52
MOTA	2182	CDS	HIS	148	14 060	-0.747	-23.934	1.00	2.81
MOTA	2183				14.969	-10.226	-23.652	1.00	2.62
			HIS	148	15.715	-10.867	-23.206	1.00	3.00
MOTA	2184		HIS	148	13.970	-8.875	-25.020	1.00	3.46
MOTA	2185		HIS	148	13.759	-8.233	-25.863	1.00	4.33
MOTA	2186		HIS	148	15.123	-9.528	-24.846	1.00	3.55
MOTA	2187	С	HIS	148	11.238	-9.971	-20.249	1.00	0.55
ATOM	2188	0	HIS	148	10.743	-11.064		1.00	0.60
MOTA	2189	N	PHE	149	10.978		-19.167	1.00	0.57
MOTA	2190	HN	PHE	149	11.392	-8 417	-19.021		
ATOM	2191	CA	PHE	149	10.060	-0.41/	-10 145	1.00	0.73
ATOM	2192	HA	PHE	149			-18.145	1.00	0.48
ATOM	2193	CB	PHE			-10.849	-17.857	1.00	0.51
ATOM	2194			149	10.022		-16.911	1.00	0.44
		HB1	PHE	149	9.603		-17.177	1.00	0.44
MOTA	2195	HB2	PHE	149	11.023	-8.831	-16 530	1 00	0 40

MOTA		CG	PHE	149	9.161	-9.615		1.00	0.40
MOTA	2197	CD1		149	7.766		-15.919	1.00	0.36
MOTA MOTA	2198 2199	HD1		149 149	7.305		-16.726	1.00	0.38
ATOM	2200	CD2 HD2		149		-10.328 -10.412		1.00	0.42
ATOM	2201	CE1		149	10.832	-10.412		1.00	0.48
MOTA	2202	HE1		149		-10.112		1.00	0.35
ATOM	2203	CE2						1.00	0.37
ATOM	2204	HE2		149		-10.932		1.00	0.40
				149		-11.482		1.00	0.45
	2205	CZ	PHE	149		-10.825		1.00	0.37
MOTA	2206	HZ	PHE	149		-11.291		1.00	0.38
MOTA MOTA	2207 2208	C	PHE	149 149	8.641		-18.706	1.00	0.43
MOTA	2209	O N	MET	150	8.080		-19.217		0.45
ATOM	2210		MET	150		-11.153 -11.888	-18.575	1.00	0.43
ATOM	2211	HN	MET	150				1.00	0.50
ATOM	2212	CA HA	MET	150		-11.357 -10.400		1.00	0.39
	2213	CB	MET	150		-12.207		1.00	0.38
ATOM	2214	HB1		150				1.00	0.44
ATOM	2215	HB2		150		-12.374 -13.157		1.00	0.45
ATOM	2216	CG	MET	150	7.103	-11.477	21 446	1.00	0.47 0.50
ATOM	2217		MET	150		-11.831		1.00	0.98
ATOM	2218	HG2		150		-10.415		1.00	0.86
ATOM	2219	SD	MET	150	6 571	-11.806	-21.233	1.00	1.32
ATOM	2220	CE	MET	150		-13.384		1.00	2.23
ATOM	2221		MET	150		-14.022		1.00	2.66
	. 2222		MET	150	0 411	-13.211	-22.521		
ATOM	2223		MET	150		-13.861		1.00	2.74
ATOM	2224	C	MET	150		-12.071		1.00	0.32
MOTA	2225	ŏ	MET	150		-12.837		1.00	0.32
MOTA	2226	Ň	LEU	151		-11.819		1.00	0.28
ATOM	2227	HN	LEU	151		-11.188		1.00	0.30
ATOM	2228	CA	LEU	151		-12.478		1.00	0.24
MOTA	2229	HA	LEU	151	4 120	-12.064	-15 803	1.00	0.24
ATOM	2230	СВ	LEU	151	2 327	-12.212	-16 966	1.00	0.24
MOTA	2231		LEU	151	1.765	-12.626	-16 145	1.00	0.25
MOTA	2232		LEU	151	2.012	-12.680	-17 887	1.00	0.28
MOTA	2233	CG	LEU	151	2 061	-10.703	-17 047	1.00	0.28
ATOM	2234	HG	LEU	151	2 900	-10.208	-17 512	1.00	0.52
ATOM	2235		LEU	151	0.804	-10.457	-17 991	1.00	0.35
ATOM		HD11		151	0.506		-17.788	1.00	1.07
ATOM		HD12		151		-11.095	-17 526	1.00	1.02
ATOM		HD13		151	1 009	-10.682	-18 917	1.00	1.17
ATOM	2239		LEU	151	1.848	-10.140	-15 639	1.00	0.46
ATOM		HD21		151	2.078		-15.635	1.00	1.14
ATOM		HD22		151	2.495	-10.650	-14 941	1.00	1.16
MOTA	2242	HD23		151	0.820	-10.284	-15.345	1.00	1.11
MOTA	2243		LEU	151	4.076	-14.004	-16.794	1.00	0.24
MOTA	2244	ō	LEU	151	3.879 4.504 4.748	-14.613	-17.826	1.00	0.28
MOTA	2245	N	PRO	152	4.504	-14.641	-15.711	1.00	0.22
ATOM	2246	CA	PRO	152	4.748	-16.112	-15.751	1.00	0.23
MOTA	2247		PRO	152	5.480	-16.354	-16.503	1.00	0.24
MOTA	2248	CB	PRO	152	5.323	-16.404	-14.364	1.00	0.24
MOTA	2249	HB1	PRO	152	6.361	-16.686	-14.453	1.00	0.29
MOTA	2250	HB2	PRO	152	4.766	-17.208	-13.903	1.00	0.26
ATOM	2251	CG	PRO	152	5.209	-15.141	-13.507	1.00	0.32
ATOM	2252	HG1	PRO	152	6.166	-14.917	-13.061	1.00	0.44
ATOM	2253	HG2	PRO	152	4.473	-15,295	-12.730	1.00	0.41
MOTA	2254	CD	PRO	152	4.778	-13.976	-14.402	1.00	0.25
MOTA	2255	HD2	PRO	152	3.886	-13.507	-14.008	1.00	0.25
MOTA	2256	HD1	PRO	152	5.581	-13.263	-14.503	1.00	0.27
ATOM	2257	С	PRO	152	3.462	-16.915	-15.974	1.00	0.21
MOTA	2258	0	PRO	152	2.378	-16.371	-16.038	1.00	0.20
MOTA	2259	N	ASP	153	3.582	-18.209	-16.090	1.00	0.23
MOTA '	2260	HN	ASP	153	4.468	-18.622	-16.031	1.00	0.25
MOTA	2261	CA	ASP	153	2.380	-19.063	-16.304	1.00	0.23
MOTA	2262	HA	ASP	153	1.890	-18.772	-17.221	1.00	0.23
MOTA	2263	CB	ASP	153	2.813	-20.526	-16.401	1.00	0.25
MOTA	2264	HB1	ASP	153	1.943	-21.163	-16.363	1.00	0.26
MOTA	2265	HB2	ASP	153	3.470	-20.762	-15.576	1.00	0.26
ATOM	2266	CG	ASP	153	3.550	~20.752	-17.722	1.00	0.27
MOTA	2267		ASP	153	4.768	-20.687	-17.717	1.00	1.08
MOTA	2268	QD2	ASP	153	2.884	-20.994	-18.715	1.00	1.14
ATOM	2269	С	ASP	153	1.409	-18.899	-15.133	1.00	0.21
ATOM	2270	0	ASP	153	0.208	-18.858	-15.310	1.00	0.21
ATOM	2271	N	ASP	154	1.919	-18.820	-13.935	1.00	0.21
MOTA	2272	HN	ACD	154	2 001	-10 066	-13 013	1 00	0 22

MOTA	2273	CA	ASP	154	1.025 -18.0	678 -12.752	1.00	0.21
MOTA	2274	HA	ASP	154	0.431 -19.5	572 -12.641	1.00	0.22
ATOM	2275	CB	ASP	154	1.880 -18	474 -11.496	1.00	0.23
ATOM	2276		ASP	154	2.466 -17.	572 -11.602	1.00	
	2277				2.400 -17.	3/2 -11.002		0.22
MOTA			ASP	154	2.541 -19.	319 -11.370	1.00	0.25
ATOM	2278	CG	ASP	154	0.975 -18.3	347 -10.267	1.00	0.25
ATOM	2279	OD1	ASP	154	1.276 -18.9	982 -9.269	1.00	1.13
MOTA	2280	OD2	ASP	154	0.004 -17.0	613 -10.340	1.00	1.07
ATOM	2281	C	ASP	154	0.102 -17.4		1.00	0.19
ATOM	2282	ŏ	ASP	154				
	–				-1.095 -17.	104 -12.759	1.00	0.19
MOTA	2283	N		155	0.645 -16.		1.00	0.19
MOTA	2284	HN	ASP	155	1.613 -16.3	288 -13.443	1.00	0.21
MOTA	2285	ÇA	ASP	155	-0.210 -15.3	140 -13.496	1.00	0.19
MOTA	2286	HA	ASP	155	-0.843 -15.0	011 -12.631	1.00	0.20
MOTA	2287	CB	ASP	155	0.683 -13.9	909 -13.653	1.00	0.21
ATOM	2288		ASP	155		067 -13.969	1.00	0.22
ATOM	2289		ASP	155	1.443 -14.		1.00	0.22
ATOM	2290		ASP	155				
	2291				1.351 -13.	588 -12.315	1.00	0.24
MOTA			ASP	155	2.355 -12.	896 -12.327	1.00	1.07
MOTA	.2292		ASP	155	0.845 -14.	038 -11.300	1.00	1.14
MOTA	2293	С	ASP	155	-1.087 -15.3	300 -14.744	1.00	0.19
ATOM	2294	0	ASP	155	-2.240 -14.	918 -14.750	1.00	0.19
MOTA	2295	N	VAL	156	-0.555 -15.8		1.00	0.19
MOTA	2296	HN	VAL	156		147 -15.787	1.00	0.19
MOTA	2297	CA	VAL	156	-1.372 -16.0		1.00	0.21
MOTA	2298	HA	VAL	156	-1.726 -15.	044 17 262		
	2299						1.00	0.22
ATOM		CB	VAL	156	-0.519 -16.	630 -18.148	1.00	0.23
ATOM	2300	HB	VAL	156	-0.034 -17.	521 -17.776	1.00	0.23
MOTA	2301		VAL	156	-1.416 -16.	995 -19.333	1.00	0.27
MOTA	2302	HG11	VAL	156	-2.273 -16.3	338 -19.348	1.00	1.00
ATOM		HG12		156	-1.747 -18.	018 -19.235	1.00	1.05
ATOM		HG13		156	-0.861 -16.	882 -20.253	1.00	1.05
ATOM	2305		VAL	156				
ATOM		HG21			0.535 -15.	618 -18.600	1.00	0.26
				156	0.990 -15.	162 -17.733	1.00	1.07
ATOM		HG22		156		856 -19.204	1.00	1.05
ATOM		HG23		156	1.293 -16.3	123 -19.180	1.00	1.00
MOTA	2309	C	VAL	156	-2.574 -16.	919 -16.754	1.00	0.20
MOTA	2310	0	VAL	156	-3.694 -16.	615 -17.107	1.00	0.21
MOTA	2311	N	GLN	157	-2.356 -18.	035 -16.124	1.00	0.20
MOTA	2312	HN	GLN	157	-1.447 -18.	277 -15 047		
ATOM	2313	CA	GLN	157	-3.498 -18.	041 15 004	1.00	0.20
ATOM	2314	HA		157	-3.450 -10.	741 -15.024	1.00	0.22
			GLN		-3.987 -19.	214 -16,747	1.00	0.24
ATOM	2315	CB	GLN	.157	-2.995 -20.3		1.00	0.24
MOTA	2316		GLN	157	-3.838 -20.		1.00	0.26
MOTA	2317	HB2	GLN	157	-2.368 - 19.		1.00	0.23
MOTA	2318	CG	GLN	157	-2.184 -21.	064 -16.095	1.00	0.25
MOTA	2319	HG1	GLN	157	-1.174 -20.	686 -16.152	1.00	
MOTA	2320	HG2	GLN	157	-2.636 -21.	032 -17 074	1.00	0.87
ATOM	2321	CD	GLN	157	-2.152 -22.	510 -15 500	1.00	1.19
ATOM	2322		GLN	157	-2.132 -22.	700 14 504		
	2323				-2.594 -22.	199 -14.504	1.00	1.89
ATOM			GLN	157	-1.646 -23.		1.00	1.96
MOTA	2324	HE21	GLN	157		203 -17.247		2.18
MOTA		HE22		157	-1.624 -24.		1.00	2.65
MOTA	2326	Ç	GLN	157	-4.505 -18.	214 -14.925	1.00	0.22
MOTA	2327	0	GLN	157	-5.702 -18.	356 -15.077	1.00	0.24
MOTA	2328	N	GLY	158	-4.027 -17.	456 -13.974	1.00	0.21
MOTA	2329	HN	GLY	158	-3.057 -17.	370 -13 850	1.00	0.20
ATOM	2330	CA	GLY	158	-4.952 -16.		1.00	0.22
MOTA	2331		GLY	158	-4.380 -16.	310 -12 222		
MOTA	2332		GLY	158	-E CET 17	145 -16.636	1.00	0.22
MOTA	2333				-5.667 -17.	440 -12.646	1.00	0.25
		C	GLY	158	-5.704 -15.	615 -13.766	1.00	0.20
MOTA	2334	0	GLY	158	-6.918 -15.	552 -13.730	1.00	0.21
ATOM	2335	N	ILE	159	-5.007 -14.	713 -14.405	1.00	0.18
ATOM	2336	HN	ILE	159	-4.028 -14.	763 -14.418	1.00	0.18
MOTA	2337	CA	ILE	159	-5.713 -13.		1.00	0.19
MOTA	2338	HA	ILE	159	-6.301 -13.		1.00	0.20
ATOM	2339	CB	ILE	159	-4 670 10	END . 15 725		
ATOM	2340				-4.679 -12.	040 -15./35	1.00	0.19
		HB	ILE	159	-3.950 -12.	307 -14.988	1.00	0.20
MOTA	2341	CGI	ILE	159	-5.355 -11.	384 -16.284	1.00	0.24
MOTA		HG11		159	-6.308 -11.	645 -16.717	1.00	0.26
MOTA		HG12	ILE	159	-4.725 -10.	952 -17.045	1.00	0.28
MOTA	2344		ILE	159	-3.968 -13.	361 -16.880	1.00	0.21
MOTA	2345	HG21		159	-2.998 -12.	914 -17 036	1.00	1.01
ATOM		HG22		159	-4.556 -13.	274 -17 791	1.00	1.01
MOTA		HG23		159	-3.848 -14.	398 -16 620	1.00	
MOTA	2348		ILE	159	-5.571 -10.	356 -15.028		1.04
MOTA		HD11	TIP	159			1.00	0.27
	2343	WATT	نتسد.	T33	-0.322 -4.	644 -15 476	1 11	1 05

ATOM '	2350	HD12	ILE	159	-4.644 -9.838 -14.978 1.00 1.0	6
ATOM	2351	HD13	ILE	159	-5.893 -10.848 -14.265 1.00 1.0	
ATOM	2352		ILE	159	-6.644 -14.162 -16.173 1.00 0.2	
ATOM	2353		ILE	159	-7.754 -13.700 -16.347 1.00 0.2	
ATOM	2354		GLN	160	-6.215 -15.168 -16.885 1.00 0.2	2
ATOM	2355		GLN	160	-5.322 -15.538 -16.726 1.00 0.2	
ATOM	2356		GLN	160	-7.097 -15.763 -17.930 1.00 0.2	
				160		
MOTA	2357		GLN		-7.457 -14.979 -18.580 1.00 0.2	
MOTA	2358		GLN	160	-6.317 -16.786 -18.756 1.00 0.3	
	'2359		GLN	160	-6.999 -17.334 -19.389 1.00 0.3	
ATOM	2360	HB2		160	-5.809 -17.472 -18.093 1.00 0.3	
MOTA	2361	CG	GLN	160	-5.289 -16.062 -19.626 1.00 0.3	
MOTA	2362	HG1	GLN	160	-4.606 -15.512 -18.997 1.00 0.9	2
ATOM	2363	HG2	GLN	160	-5.799 -15.378 -20.290 1.00 0.9	1
ATOM	2364	CD	GLN	160	-4.508 -17.087 -20.451 1.00 1.1	1
MOTA	2365	OE1	GLN	160	-4.451 -18.248 -20.100 1.00 1.8	8
ATOM	2366		GLN	160	-3.901 -16.704 -21.540 1.00 1.8	
		HE21		160	-3.947 -15.767 -21.824 1.00 2.1	3
ATOM	2368		GLN	160	-3.398 -17.353 -22.075 1.00 2.4	
ATOM	2369	C	GLN	160	-8.290 -16.447 -17.261 1.00 0.2	
ATOM	2370	ŏ	GLN	160	-9.386 -16.449 -17.779 1.00 0.3	
	2371			161		
MOTA		N	SER			
ATOM	2372	HN	SER	161	-7.193 -17.030 -15.714 1.00 0.2	
ATOM	2373	CA	SER	161	-9.213 -17.718 -15.424 1.00 0.3	
MOTA	2374	HA	SER	161	-9.658 -18.444 -16.089 1.00 0.3	14
ATOM	2375	CB	SER	161	-8.690 -18.427 -14.174 1.00 0.3	
ATOM .	· 2376	HB1	SER	161	-7.861 -19.067: -14.444 1.00 0.3	
MOTA	2377	HB2	SER	161	-9.476 -19.024 -13.741 1.00 0.3	36
MOTA	2378	OG	SER	161	-8.267 -17.455 -13.227 1.00 0.3	33
MOTA	2379	HG	SER	161	-9.045 - 16.986 - 12.915 1.00 0.9	94
MOTA	2380	С	SER	161	-10.267 -16.684 -15.019 1.00 0.3	
ATOM	2381	0	SER	161	-11.433 -16.997 -14.882 1.00 0.3	
ATOM	2382	N	LEU	162	-9.867 -15.457 -14.815, 1.00 0.3	
MOTA	2383	HN	LEU	162	-8.920 -15.225 -14.921 1.00 0.2	
MOTA	2384	CA	LEU	162	-10.852 -14.413 -14.405 1.00 0.3	
ATOM	2385	HA	LEU	162	-11.637 -14.869 -13.821 1.00 0.3	
ATOM	2386	CB	LEU	162		
					-10.141 -13.350 -13.563 1.00 0.3	
ATOM	2387	HB1		162	-10.802 -12.509 -13.411 1.00 0.3	
MOTA	2388	HB2		162	-9.256 -13.017 -14.086 1.00 0.3	
MOTA	2389	CG	LEU	162	-9.736 -13.937 -12.206 1.00 0.3	
ATOM	2390	HG	LEU	162	-9.157 -14.836 -12.367 1.00 O.:	
MOTA	2391	CD1		162	-8.883 -12.918 -11.450 1.00 0.3	
MOTA	2392	HD11	LEU	162	-8.496 -13.370 -10.549 1.00 1.0	03
MOTA	2393	HD12	LEU	162	-9.490 -12.063 -11.191 1.00 1.0	01
MOTA	2394	HD13	LEU	162	-8.062 -12.601 -12.075 1.00 1.3	12
MOTA	2395	CD2	LEU	162	10.980 -14.272 -11.374 1.00 0.3	33
MOTA	2396	HD21	LEU	162	-11.227 -15.315 -11.502 1.00 1.	
ATOM	2397		LEU	162	-11.812 -13.664 -11.697 1.00 1.	
MOTA	2398	HD23		162	-10.776 -14.078 -10.332 1.00 1.	
ATOM	2399	C	LEU	162	-11.461 -13.742 -15.643 1.00 0.	
ATOM	2400	ŏ	LEU	162	-12.664 -13.615 -15.757 1.00 0.	
MOTA	2401	Ň		163		~=
MOTA	2402		TYK	163	-10.645 -13.300 -16.564 1.00 0. -9.677 -13.404 -16.452 1.00 0.	
MOTA	2403	HN	TYR	163		
		CA	TYR	163	-11.188 -12.626 -17.783 1.00 0.	
MOTA	2404	HA	TYR		-12.144 -12.182 -17.549 1.00 0.	
MOTA	2405	CB	TYR	163	-10.219 -11.531 -18.236 1.00 0.	
MOTA	2406		TYR	163	-10.562 -11.112 -19.170 1.00 0.	
MOTA	2407	HB2	TYR	163	-9.234 -11.952 -18.371 1.00 0.	
MOTA	2408	CG	TYR	163	-10.162 -10.444 -17.190 1.00 0.	
MOTA	2409		TYR	163	-9.223 -10.520 -16.155 1.00 0.	
MOTA	2410		TYR	163	-8.545 -11.359 -16.103 1.00 0.	
MOTA	2411	CD2	TYR	163	-11.042 -9.357 -17.258 1.00 0.	27
MOTA	2412		TYR	163	-11.767 -9.298 -18.056 1.00 0.	
MOTA	2413	CEL	TYR	163	-9.164 -9.511 -15.187 1.00 O.	
ATOM	2414	HE1	TYR	163	-8.439 -9.571 -14.388 1.00 0.	
MOTA	2415	CE2	TYR	163	-10.984 -8.348 -16.289 1.00 0.	
MOTA	2416	HE2	TYR	163	-11.663 -7.510 -16.340 1.00 0.	
ATOM	2417	CZ	TYR	163		
ATOM	2418	OH	TYR	163		
					-9.985 -7.430 -14.299 1.00 0.	
MOTA	2419	HH	TYR	163		99
MOTA	2420	C	TYR	163	-11.367 -13.647 -18.909 1.00 0.	
MOTA	2421	0	TYR	163	-11.953 -13.357 -19.933 1.00 0.	
MOTA	2422	N	GLY	164	-10.865 -14.836 -18.729 1.00 0.	
MOTA	2423	HN	GLY	164		35
MOTA	2424	CA	GLY	164	-11.001 -15.877 -19.789 1.00 0.	47
MOTA	2425		GLY	164	-11.851 -15.651 -20.413 1.00 0.	
₽ ₩	2425	ES N T	OT 17	164	11 140 16 044 10 006 1 00 0	

		_							
MOTA	2427	C	GLY	164	-9.735	~15.902	-20.648	1.00	0.55
MOTA	2428	0	GLY	164	-9.761	-15.580	-21.819	1.00	1.01
TER	2429		GLY	164					
HETATM	2430	ZN	ZN	166	-0.218	-6.515	-2.613	1.00	0.24
HETATM	2431	ZN	ZN	167	-3.506	6.833	-0.714	1.00	0.97
HETATM		CA	CA	168	6.060	3.350	3.030	1.00	0.23
HETATM		CI	WAY	169	2.180				
HETATM		C2				-4.315	1.627	0.00	0.30
			WAY	169	0.865	-4.629	1.215	0.00	0.33
HETATM		1CE1		169	-0.170	-4.517	2.143	0.00	0.38
HETATM			WAY	169	0.074	-4.157	3.457	0.00	0.40
HETATM	2437	1CE2	WAY	169	1.355	-3.807	3.841	0.00	0.38
HETATM	2438	C6	WAY	169	2.395	-3.805	2.922	0.00	0.33
HETATM	2439	1HE1	WAY	169	-1.190	-4.713	1.839	0.00	0.42
HETATM			WAY	169	-0.734	-4.151	4.173	0.00	0.45
HETATM		1HE2		169	1.535	-3.534			
HETATM			WAY	169			4.872	0.00	0.42
HETATM					0.444	-5.080	-0.136	0.00	0.36
			WAY	169	0.467	-6.264	-0.463	0.00	0.58
HETATM			WAY	169	-0.019	-4.195	-1.032	0.00	0.61
HETATM			WAY	169	-0.045	-4.608	-2.371	0.00	0.68
HETATM	2446	H14	WAY	169	-0.357	-3.297	-0.743	0.00	0.88
HETATM	2447	H15	WAY	169	-0.953	-4.727	-2.645	0.00	1.13
HETATM	2448	1CH1		169	3.728	-3.247	3.360	0.00	0.37
HETATM	2449	1HH1		169	3.702	-2.162	3.422		
HETATM			WAY	169	4.519			0.00	1.07
HETATM						-3.516	2.664	0.00	1.06
			WAY	169	4.013	-3.623	4.339	0.00	1.11
HETATM			WAY	169	3.274	-4.485	0.819	0.00	0.29
HETATM			WAY	169	3.865	-3.175	0.021	0.00	0.25
HETATM			WAY	169	3.882	-5.812	0.684	0.00	0.32
HETATM	2455	2CE1	WAY	169	7.334	-6.241	2.178	0.00	1.09
HETATM	2456	2CZ	WAY	169	6.971	-6.520	3.488	0.00	0.53
HETATM	2457	N25	WAY	169	5.697	-6.659	3.876	0.00	1.47
HETATM	2458	2CD2		169	4.747	-6.451	2.954	0.00	
HETATM			WAY	169					1.37
HETATM		2CD1			5.010	-6.084	1.640	0.00	0.36
				169	6.338	-5.982	1.250	0.00	1.14
HETATM				169	8.374	-6.224	1.881	0.00	1.94
HETATM			WAY	169	7.752	-6.630	4.227	0.00	0.61
HETATM		2HD2	WAY	169	3.708	-6.570	3.227	0.00	2.23
HETATM	2464	2HD1	WAY	169	6.599	-5.706	0.239	0.00	2.05
HETATM	2465	2HB1	WAY	169	4.245	-5.905	-0.339	0.00	0.31
HETATM	2466	2HB2	WAY	169	3.095	-6.552	0.832	0.00	0.34
HETATM			WAY	169	4.187	-3.617	-1.665	0.00	
HETATM		3CD1		169	3.310	-3.216	-2.661		0.23
HETATM		3CE1		169				0.00	0.25
HETATM					3.622	-3.465	-3.992	0.00	0:27
			WAY	169	4.769	-4.183	-4.326	0.00	0.24
HETATM		3CE2		169	5.602	-4.644	-3.308	0.00	0.23
HETATM		3CD2		169	5.315	-4.359	-1.979	0.00	0.23
HETATM		3HD1	WAY	169	2.392	-2.714	-2.389	0.00	0.29
HETATM	2474	3HE1	WAY	169	2.961	-3.091	-4.758	0.00	0.31
HETATM	2475	3HE2	WAY	169	6.481	-5.228	-3.535	0.00	0.26
HETATM		3HD2		169	5.959	-4.707	-1.184	0.00	0.27
HETATM			WAY	169	5.078	-4.439			
HETATM			WAY	169			-5.664	0.00	0.27
HETATM					6.245	-5.202	-5.904	0.00	0.28
		3HH1		169	6.379	-5.372	-6.973	0.00	0.31
HETATM			WAY	169	6.178	-6.172	-5.407	0.00	0.28
HETATM		3HH3	WAY	169	7.127	-4.683	-5.526	0.00	0.29
HETATM			WAY	169	5.123	-2.847	0.614	0.00	0.27
HETATM	2483	051	WAY	169	2.834	-2.186	0.004	0.00	0.25
END				-		_,,			

	A	tom	Res.		х	. Y	z	Occ. B	WOT
ATOM	1	уре Св	THR	7	73.468		6.079	Occ. B	MOL.
ATOM	2	OG1	THR	7	72.149	27.410 27.911	6.358	1.00 42.70 1.00 37.82	A_13 A_13
ATOM	4	CG2	THR	7	73.843	26.297	7.068	1.00 25.79	A_13
MOTA	5	C	THR	7	75.936	28.076	6.227	1.00 28.29	A_13
ATOM	6	0	THR	7	76.497	28.090	7.332	1.00 22.94	A_13
ATOM ATOM	9 11	N CA	THR THR	7 7	74.360 74.501	29.396	4.862	1.00 20.25	A_13
ATOM	12	N	LEU	8	76.547	28.593 27.691	6.099 5.099	1.00 21.49 1.00 32.90	A_13 A_13
ATOM	14	CA	LEU	8	77.915	27.150	5.105	1.00 31.85	A_13 A_13
MOTA	15	GB	LEU	8	77.952	25.759	4.438	1.00 21.38	A_13
ATOM	16	CG	LEU	8	78.016	25.576	2.910	1.00 29.31	A_13
ATOM	17	CD1		8	79.463	25.509	2.425	1.00 16.78	A_13
MOTA MOTA	18 19	CDZ	LEU LEU	8 8	77.334	24.292	2.527	1.00 23.37	A_13
ATOM	20	ŏ	LEU	8	78.956 78.835	28.070 28.415	4.465 3.293	1.00 24.01 1.00 26.18	A_13 A_13
ATOM	21	N	LYS	9	79.980	28.424	5.251	1.00 36.26	A_13
MOTA	23	CA	LYS	9	81.106	29.298	4.867	1.00 23.24	A_13
MOTA	24	CB	LYS	9	82.438	28.521	4.977	1.00 25.52	A_13
ATOM ATOM	25 26	CD	LYS LYS	9 9	82.767	27.570	3.815	1.00 19.05	A_13
ATOM	27	CE	LYS	9	83.661 83.451	28.243 27.688	2.753 1.323	1.00 31.69 1.00 25.30	A_13 A_13
ATOM	28	NZ	LYS	9	82.056	27.938	0.797	1.00 20.65	A_13
MOTA	32	C	LYS	9	81.042	30.073	3.526	1.00 31.41	A_13
ATOM	33	0	LYS	9	80.764	29.505	2.466	1.00 22.31	A_13
MOTA .	34	N CA	TRP	10	81.327	31.372	3.573	1.00 15.84	A_13
ATOM	37	CB	TRP TRP	10 10	81.312 81.636	32.172 33.620	2.361 2.680	1.00 10.58 1.00 21.39	A_13
ATOM	38	CG	TRP	10	80.529	34.337	3.343	1.00 22.84	A_13 A_13
MOTA	39	CD2	TRP	10	79.479	35.074	2.697	1.00 20.41	~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
ATOM	40	CE2	TRP	10	78.676	35.631	3.718	1.00 24.50	A_13
MOTA	41	CE3	TRP	10	79.142	35.320	1.357	1.00 13.29	A_13
MOTA MOTA	42 43	CD1 NE1	TRP	10	80.327	34.469	4.682	1.00 13.40	A_13
ATOM	45	CZ2	TRP	10 10	79.220 77.550	35.253 36.418	4.919 3.442	1.00 18.40 1.00 12.63	A_13 A_13
ATOM	46	CZ3	TRP	10	78.021	36.105	1.083	1.00 19.89	A_13
ATOM	47	CH2	TRP	10	77.242	36.641	2.120	1.00 13.62	A_13
MOTA	48	С	TRP	10	82.377	31.594	1.455	1.00 22.95	A_13
MOTA.	49	0	TRP	10	83.450	31.221	1.920	1.00 16.28	A_13
MOTA MOTA	50 52	N CA	SER SER	11 11	82.087 83.017	31.533	0.167	1.00 14.81	A_13
ATOM	53	CB	SER	ii	82.282	30.596	-2.086	1.00 19.50 1.00 24.36	A_13 - A_13
MOTA	54	ŌĞ	SER	11	81.605	29.353	-1.958	1.00 40.49	A_13
MOTA	56	C	SER	11	84.190	31.867	-1.134	1.00 16.53	A_13
MOTA	57	0	SER	11	85.132	31.423	-1.779	1.00 23.48	A_13
MOTA MOTA	58 60	N CA	LYS LYS	12 12	84.153 85.232	33.113	-0.686	1.00 12.50	A_13
ATOM	61	CB	LYS	12	84.741	34.057 35.168	-0.961 -1.891	1.00 17.05 1.00 17.32	A_13 A_13
MOTA	62	CG	LYS	12	83.526	35.898	-1.350	1.00 18.49	A_13
ATOM	63	CD	LYS	12	82.788	36.644	-2.446	1.00 18.29	A_13
MOTA	64	CE	LYS	12	81.534	37.282	-1.888	1.00 18.44	A_13
MOTA	65 69	NZ C	LYS LYS	12 12	80.805 85.687	38.094 34.662	-2.895	1.00 16.65	A_13
ATOM	70	Ö	LYS	12	84.946	34.637	0.344 1.319	1.00 11.16 1.00 12.63	A_13 A_13
MOTA	71	Ň	MET	13	86.915	35.185	0.355	1.00 15.52	A_13
ATOM	73	CA	MET	13	87.516	35.801	1.537	1.00 11.04	A_13
MOTA	74	CB	MET	13	89.028	35.547	1.565	1.00 16.57	A_13
MOTA	75 76	CG	MET	13	89.431	34.082	1.707	1.00 20.92	A_13 A_13
ATOM	77	SD CE	met met	13 13	88.905 87.486	33.235 32.313	3.227 2.604	1.00 20.10 1.00 16.29	A_13 A_13
MOTA	78	č	MET	13	87.258	37.296	1.572	1.00 13.23	A_13
ATOM	79	0	MET	13	87.247	37.916	2.634	1.00 22.80	A_13
ATOM	80	N	asn	14	87.111	37.875	0.389	1.00 15.02	A_13
ATOM	82	CA	ASN	14	86.853	39.294	0.241	1.00 33.02	A_13 A_13
MOTA MOTA	83	CB	ASN	14	87.445	39.801	-1.082	1.00 19.42	A_13
ATOM	84 85	CG OD1	asn Asn	14 14	88.925 89.343	39.482 38.341	-1.217 -1.031	1.00 30.32 1.00 30.12	A_13 A_13
ATOM	86	ND2		14	89.723	40.489	-1.549	1.00 30.12	A_13
ATOM	89	c	ASN	14	85.337	39.482	0.277	1.00 27.58	A_13
MOTA	. 90	0	asn	14	84.606	38.935	-0.568	1.00 28.01	A 13
MOTA	91	N	LEU	15	84.868	40.212	1.287	1.00 19.06	A_13 A_13
MOTA MOTA	93	CA	LEU LEU	15 15	83.444	40.450	1.459	1.00 20.03	A_13
ATOM	94 95	CB	LEU	15	82.930 83.027	39.690 38.166	2.691 2.593	1.00 19.55 1.00 19.02	A_13 A_13
MOTA	96		LEU	15	83.216	37.555	3.962	1.00 17.48	A 13
MOTA	97	CD2	LEU	15	81.799	37.604	1.903	1.00 23.43	A_13
MOTA	98	C	LEU	15	83.161	41.928	1.609	1.00 19.52	A_13
MOTA	99	0	LEU	15	83.980	42.676	2.130	1.00 15.98	A_13

FIG. 5

MOTA	100	N	THR	16	81.983	42,343	1.162	1.00 21.22	A_13
ATOM	102	CA	THR	16	81.578	43.736	1.252	1.00 10.00	A_13
ATOM	103	CB	THR	16	81.194	44.257	-0.109	1.00 10.00	A_13
ATOM	104	OG1		16	80.225	43.370	-0.681	1.00 22.43	A_13
ATOM	106	CG2		16	.82.427	44.383	-1.009		A_13
ATOM	107	C	THR						A_13
				16	80.368	43.869	2.184	1.00 14.48	A_13
MOTA	108	0	THR	16	79.647	42.897	2.445	1.00 15.74	A_13
MOTA	109	N	TYR	17	80.176	45.065	2.716	1.00 15.89	A_13
MOTA	111	CA	TYR	17	79.064	45.340	3.604	1.00 13.19	A_13
MOTA	112	CB	TYR	17	79.480	45.195	5.067	1.00 21.42	A_13
MOTA	113	CG	TYR	17	80.448	46.236	5.580	1.00 26.23	A_13
MOTA	114	CD1	TYR	17	81.824	46.081	5.412	1.00 16.37	A_13
MOTA	115	CE1	TYR	17	82.724	46.981	5.988	1.00 12.90	A_13
ATOM	116	CD2	TYR	17	79.990	47.329	6.331	1.00 17.15	A_13
MOTA	117	CE2		17	80.880	48.235	6.912	1.00 24.15	A_13
ATOM	118	CZ	TYR	17	82.244	48.057	6.743	1.00 23.38	A_13
ATOM	119	ОН	TYR	17	83.121	48.942	7.343	1.00 23.38	
MOTA	121	C	TYR	17	78.573	46.740	3.343		A_13
ATOM	122	õ	TYR	17				1.00 10.00	A_13
	123				79.298	47.559	2.782	1.00 19.27	A_13
ATOM		.N	ARG	18	77.349	47.019	3.762	1.00 18.52	A_13
MOTA	125	CA	ARG	18	76.762	48.332	3.577	1.00 10.00	A_13
ATOM	126	CB	ARG	18	75.970	48.363	2.274	1.00 10,00	A_13
ATOM	127	CG	ARG	18	75.134	49.619	2.094	1.00 14.01	· A_13
MOTA	128	CD	ARG	18	74.266	49.524	0.846	1.00 13.91	A_13
MOTA	129	NE	ARG	18	73.298	50.615	0.782	1.00 13.55	A_13
ATOM	131	CZ	ARG	18	72.165	50.571	0.092	1.00 10.00	A_13
ATOM	132	NH1	ARG	18	71.855	49.488	-0.602	1.00 14.30	A_13
MOTA	135	NH2	ARG	18	71.331	51.604	0.125	1.00 28.79	A_13
ATOM	138	С	ARG	18	75.842	48.640	4.741	1.00 10.65	A_13
ATOM	139	ō.	ARG	18	75.037	47.796	5.141	1.00 12.86	
ATOM	140	N	ILE	19	76.014	49.814			A_13
ATOM	142	CA	ILE	19			5.332	1.00 25.54	A_13
MOTA	143	СВ	ILE	19	75.169	50.265	6.436	1.00 24.52	A_13
ATOM					75.944	51.236	7.350	1.00 18.37	A_13
	144	CG2		19	75.034	51.765	8.485	1.00 13.87	A_13
MOTA	145	CG1		19	77.204	50.545	7.888	1.00 27.67	A_13
ATOM	146		ILE	19	78.203	51.501	8.557	1.00 22.81	A_13
ATOM	147	С	ILE	. 19	74.062	51.027	5.698	1.00 21.11	A_13
MOTA	148	0	ILE	19	74.261	52.179	5.300	1.00 10.00	A_13
MOTA	149	N	VAL	20	72.916	50.378	5.487	1.00 19.76	A_13
MOTA	151	CA	VAL	20	71.829	51.014	4.735	1.00 18.20	A_13
ATOM	152	CB	VAL	20	70.774	49.983	4.193	1.00 15.42	A_13
MOTA	153		VAL	20	71.384	48.570	4.088	1.00 10.00	
ATOM	154		VAL	20	69.496	50.030	4.992		A_13
ATOM	155	C	VAL	20	71.175			1.00 18.62	A_13
ATOM	156	ŏ	VAL			52.206	5.443	1.00 11.67	A_13
ATOM	157			20	70.652	53.110	4.798	1.00 18.36	· A_13
		И	ASN	21	71.153	52.187	6.773	1.00 10.94	A_13
MOTA	159	CA	ASN	21	70.609	53.316	7.544	1.00 11.99	A_13
MOTA	160	CB	ASN	21	69.078	53.307	7.675	1.00 10.00	A_13
ATOM	161	CG	ASN	21	68.533	51.978	8.107	1.00 14.93	A_13
MOTA	162		asn	21	67.627	51.449	7.486	1.00 21.54	A_13
MOTA	163	ND2	ASN	21	69.105	51.408	9.148	1.00 10.00	A_13
ATOM	166	С	asn	21	71.291	53.382	8.897	1.00 18.90	A_13
MOTA	167	0	ASN	21	72.006	52.447	9.283	1.00 12.49	A_13
ATOM	168	N	TYR	22	71.053	54.471		1.00 17.47	A_13
ATOM	170	CA	TYR	22	71.681	54.708	10.910	1.00 24.85	A 13
MOTA	171	CB	TYR	22	72.556	55.954	10.818	1.00 13.52	A_13 A_13
ATOM	172	CG	TYR	22	73.791	55.748	9.991	1.00 10.00	A_13
ATOM	173		TYR	22	75.033	55.600	10.598		A_13
ATOM	174		TYR	22	76.180			1.00 14.05	A_13
ATOM	175		TYR			55.370	9.841	1.00 13.69	A_13
ATOM				22	73.717	55.663	8.608	1.00 10.00	A_13
	176		TYR	22	74.848	55.432	7.847	1.00 17.10	A_13
ATOM	177	CZ	TYR	22	76.077	55.288	8.476	1.00 14.43	A_13
MOTA	178	OH	TYR	22	77.204	55.072	7.737	1.00 10.00	A_13
MOTA	180	C	TYR	22	70.726	54.862	12.076	1.00 25.95	A_13
MOTA	181	0	TYR	22	69.593	55.311	11.916	1.00 10.00	A_13
ATOM	182	N	THR	23	71.187	54.483	13.259	1.00 20.30	A 13
MOTA	184	CA	THR	23	70.367	54.606	14.450	1.00 29.11	A_13
ATOM	185	CB	THR	23	70.821	53.635	15.584		A_13 A_13
ATOM	186		THR	23	70.136			1.00 10.90	A_13
ATOM	188		THR	23		53.968	16.792	1.00 10.00	A_13
ATOM	189	C			72.328	53.752	15.852	1.00 16.51	A_13
ATOM			THR	23	70.459	56.038	14.959	1.00 18.14	A_13
	190	0	THR	23	71.360	56.785	14.575	1.00 10.00	A_13
ATOM	191	N	PRO	24	69.433	56.487	15.691	1.00 12.76	A_13
MOTA	192	CD	PRO	24	68.061	55.950	15.716	1.00 15.26	A_13
ATOM	193	CA	PRO	24	69.453	57.844	16.232	1.00 22.70	A_13
ATOM	194	CB	PRO	24	67.985	58.086	16.585	1.00 28.52	A_13
MOTA	195	CG	PRO	24	67.448	56.706	16.841	1.00 15.78	A_13
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MOTA	196	`C	PRO	24	70.346	57.945	17.475	1.00 24.52	A_13
MOTA	197	ō	PRO	24	70.790	59.040	17.831		
ATOM	198							1.00 10.00	A_13
		N	ASP	25	70.614	56.797	18.105	1.00 11.82	A_13
MOTA	200	CA,	ASP	25	71.416	56.721	19.336	1.00 12.31	A_13
MOTA	201	CB	ASP	25	71.339	55.317	19.917	1.00 25.26	A_13
ATOM	202	CG	ASP	25	69.927	54.782	19.977	1.00 10.00	A_13
MOTA	203		ASP	25	69.783	53.567	20.159	1.00 20.90	A_13
ATOM	204	OD2	ASP	25					7-13
					68.960	55.558	19.841	1.00 18.45	A_13
MOTA	205'	C	ASP	25	72.891	57.113	19.286	1.00 14.34	A_13
ATOM	206	0	ASP	25	73.449	57.511	20.301	1.00 11.77	A_13
ATOM	207	N	MET	26	73.546	56.873	18.157	1.00 20.78	A_13
MOTA	209	CA.	MET	26	74.960	57.208	18.010	1.00 20.03	A_13
ATOM	210	CB	MET	26	75.791				
					• .	55.928	17.916	1.00 13.86	A_13
ATOM	211	CG	MET	26	75.966	55.181	19.231	1.00 19.00	A_13
ATOM	212	SD	MET	26	76.043	53.404	18.941	1.00 14.67	A_13
MOTA	213	CE	MET	26	77.737	53.223	18.385	1.00 19.74	A_13
ATOM	214	С	MET	26	75.157	58.047	16.754	1.00 13.32	A_13
ATOM	215	ō	MET	26	74.274	58.086	15.900		
ATOM	216							1.00 16.81	A_13
		N	THR	27	76.285	58.749	16.656	1.00 10.29	A_13
MOTA	218	CA	THR	27	76.568	59.564	15.470	1.00 17.00	A_13
MOTA	219	СВ	THR	27	77.710	60.596	15.700	1.00 11.79	A_13
ATOM	220	OG1	THR	27	78.969	59.921	15.729	1.00 23.77	A_13
ATOM	222	CG2	THR	27	77.519	61.342	17.020	1.00 21.98	A_13
ATOM	223	c	THR	27	76.996	58.634	14.347		<u></u>
ATOM	224							1,00 13.37	A_13
		0	THR	27	77.411	57.500	14.608	1.00 11.05	A_13
ATOM	225	, N	HIS	28	76.972	59.124	13.113	1.00 10.00	A_13
ATOM	227	CA	HIS	28	77.362	58.300	11.980	1.00 10.96	A_13
ATOM	228	CB	HIS	28	77.240	59.071	10.657	1.00 16.07	A_13
MOTA	229	CG	HIS	28	75.829	59.382	10.264	1.00 15.53	
ATOM	230		HIS						A_13
				28	74.707	59.531	11.016	1.00 21.47	A_13
MOTA	231	_	HIS	28	75.440	59.597	8.959	1.00 30.32	A_13
ATOM	233	CEl	HIS	28	74.149	59.868	8.920	1.00 19.38	A_13
MOTA	234	NE2	HIS	28	73.680	59.833	10.160	1.00 29.43	A_13
ATOM	236	С	HIS	28	78.769	57.735	12.151	1.00 14.80	A_13
ATOM	237	ŏ	HIS	28	79.005	56.568	11.851		7_13
ATOM	238							1.00 28.24	A_13
		N	SER	- 29	79.703	58.548	12.634	1.00 14.00	A_13
ATOM	240	CA	SER	29	81.068	58.070	12.854	1.00 19.57	A_13
ATOM	241	CB	SER	29	82.001	59.219	13.242	1.00 17.84	A_13
ATOM	242	OG	SER	29	82.383	59.936	12.084	1.00 28.25	A_13
ATOM	244	C	SER	29	81.134	56.983	13.917	1.00 15.23	A_13
ATOM	245		SER	29					
		0			81.818	55.973	13.733	1.00 13.73	A_13
MOTA	246	N	GLU	30	80.428	57.182	15.027	1.00 27.71	A_13
MOTA	248	CA	GLU	30	80.430	56.186	16.100	1.00 23.60	A_13
ATOM	249	CB	GLU	30	79.571	56.635	17.289	1.00 21.72	A_13
ATOM	250	CG	GLU	30	80.048	57.913	17.973	1.00 24.07	A_13
ATOM	251	CD	GLU	30					
					79.205	58.279	19.185	1.00 21.06	A_13
ATOM	252		GLU	30	79.784	58.660	20.218	1.00 46.95	A_13
ATOM	253	OE2	GĽŰ	30	77.963	58.185	19.119	1.00 18.27	A_13
ATOM	254	С	GLU	30	79.895	54.877	15.553	1.00 18.75	A_13
MOTA	255	0	GLU	30	80.456	53.809	15.815	1.00 13.06	A_13
MOTA	256	N	VAL	31	78.839	54.970	14.746		
ATOM	258	CA	VAL	31				1.00 16.23	A_13
					78.225	53.781	14.146	1.00 22.33	
MOTA	259	CB	VAL	31	76.899	54.135	13.390	1.00 23.53	A_13
ATOM	260		VAL	31	76.384	52.920	12.628	1.00 14.39	A_13 A_13
MOTA	261	CG2	VAL	31	75.829	54.587	14.377	1.00 10.00	A 13
MOTA	262	С	VAL	31	79.208	53.040	13.216	1.00 20.29	A_13
MOTA	263	ō	VAL	31	79.330	51.814	13.282	1.00 14.02	A_13
ATOM	264	N	GLU	32	79.913				A_13
						53.790	12.370	1.00 23.94	A_13
MOTA	266	CA	GLU	32	80.887	53.219	11.446	1.00 10.18	A_13
MOTA	267	CB	GLU	32	81.406	54.285	10.502	1.00 16.50	A_13
MOTA	268	CG	GLU	32	80.424	54.605	9.427	1.00 20.84	A_13
ATOM	269	CD .	GLU	32	80.330	56.080	9.155	1.00 22.31	A_13
ATOM	270		GLU	32	79.285				V-13
ATOM		027	G1.11			56.509	8.639	1.00 29.39	A_13
	271		GLU	32	81.294	56.812	9.458	1.00 22.01	A_13
ATOM	272	C	GLU	32	82.056	52.565	12.137	1.00 18.93	A_13
ATOM	273	0	GLU	32	82.474	51.470	11.753	1.00 24.42	A_13
ATOM	274	N	LYS	33	82.610	53.241	13.139	1.00 19.78	A_13
ATOM	276	CA	LYS	33	83.726	52.661	13.873	1.00 28.68	7 12
ATOM	277	CB	LYS	33	84.340				A_13
						53.681	14.837	1.00 18.54	A_13
ATOM	278	CG	LYS	33	85.016	54.855	14.135	1.00 31.19	A_13
ATOM	279	CD	LYS	33	86.135	54.425	13.148	1.00 40.31	A_13
MOTA	280	CE	LYS	33	85.600	53.972	11.785	1.00 21.99	A_13
MOTA	281	NZ	LYS	33	86.646	53.779	10.773	1.00 33.20	
ATOM	285	C	LYS						A_13
ATOM	286			33	83.242	51.407	14.594	1.00 12.66	A_13
		0	LYS	33	83.892	50.361	14.552	1.00 15.54	A_13
MOTA	287	N	ALA	34	82.036	51.481	15.148	1.00 20.70	A_13
ATOM	289	CA	ALA	34	81.453	50.344	15.843	1.00 10.00	A_13
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MOTA	290	CB	ALA	34	80.040	50.651	16.279	1.00 18.59	. 17
ATOM	291	C	ALA	34	81.468	49.119	14.940		A_13
MOTA	292	ō	ALA	34				1.00 13.45	A_13
					82.067	48.095	15.284	1.00 15.90	A_13
MOTA	293	N	PHE	35	80.857	49.234	13.766	1.00 19.57	A_13
MOTA	295	CA	PHE	35	.80.802	48.112	12.812	1.00 26.77	A_13
MOTA	296	CB	PHE	35	79.837	48.423	11.660	1.00 17.34	A_13
ATOM	297	CG	PHE	35	78.390	48.477	12.077	1.00 30.55	A_13
MOTA	298	CD1	PHE	35	77.838	47.464	12.863		7-13
ATOM	299		PHE	35				1.00 26.58	A_13
					77.570	49.512	11.653	1.00 10.00	A_13
MOTA	300	CE1		35	76.494	47.485	13.212	1.00 12.45	A_13
ATOM	301	CE2	PHE	35	76.224	49.538	12.002	1.00 17.92	A_13
MOTA	302	CZ	PHE	35	75.684	48.525	12.777	1.00 13.29	A_13
ATOM	303	С	PHE	35	82.170	47.754	12.236	1.00 11.31	
ATOM	304	ō	PHE	35	82.493				A_13
ATOM	305	N				46.573	12.034	1.00 11.37	A_13
			LYS	36	82.962	48.778	11.945	1.00 17.06	A_13
MOTA	307	CA	LYS	36	84.293	48.573	11.400	1.00 17.41	A_13
MOTA	308	CB	LYS	36	84.991	49.922	11.208	1.00 11.20	A_13
ATOM	309	CG	LYS	36	86.282	49.792	10.439	1.00 28.84	A_13
ATOM	310	CD	LYS	36	87.246	50.917	10.738	1.00 24.52	A_13
ATOM	311	CE	LYS	36	88.542	50.703	9.978		A_13
ATOM	312	NZ	LYS	36				1.00 12.87	A_13
ATOM					88.264	50.536	8.514	1.00 23.69	A_13
	316	C	LYS	36	85.122	47.685	12.345	1.00 16.09	A_13
MOTA	317	0	LYS	36	85.701	46.686	11.938	1.00 21.50	A_13
MOTA	318	N	LYS	37	85.173	48.057	13.613	1.00 12.42	A_13
MOTA	320	CA	LYS	37	85.926	47.303	14.591	1.00 12.36	A_13
ATOM	321	CB	LYS	37	85.953	48.066	15.917	1.00 13.65	7_13
MOTA	322	CG	LYS	. 37	86.744	47.374	17.028		A_13
ATOM	323	CD	LYS	37					A_13
ATOM					88.192	47.125	16.616	1.00 38.32	A_13
	324	CE	LYS	37	88.750	45.825	17.205	1.00 34.46	A_13
ATOM	325	NZ	LYS	37	88.234	44.576	16.557	1.00 12.49	A_13
ATOM	329	С	LYS	37	85.372	45.887	14.786	1.00 17.04	A_13
ATOM	330	0	LYS	37	86.131	44.958	15.053	1.00 18.14	A_13
ATOM	331	N	ALA	38	84.061	45.711	14.649		
ATOM	333	CA	ALA	38	83.452				A_13
ATOM	334	CB				44.392	14.822	1.00 11.03	A_13
			ALÀ	38	81.941	44.504	14.890	1.00 14.71	A_13
ATOM	335	С	ALA	38	83.900	43.451	13.697	1.00 20.27	A_13
MOTA	336	0	ALA	38	84.143	42.266	13.936	1.00 18.80	A_13
ATOM	337	. N	PHE	39	84.021	43.971	12.477	1.00 22.58	A_13
MOTA	339	CA	PHE	39	84.492	43.158	11.355	1.00 18.87	A_13
MOTA	340	CB	PHE	39	84.350	43.899	10.027		W_13
ATOM	341	CG	PHE	39			10.027	1.00 19.91	A_13
ATOM					82.993	43.783	9.414	1.00 10.00	A_13
	342		PHE	39	82.266	44.915	9.097	1.00 17.54	A_13
MOTA	343		PHE	39 .	82.438	42.533	9.143	1.00 15.92	A_13
MOTA	344	CE1	PHE	39	81.008	44.808	8.520	1.00 20.75	A_13
ATOM	345	CE2	PHE	39	81.186	42 418	8 560	1.00 10.00	A_13
MOTA	346	CZ	PHE	39	80.467	43.555	8.252	1.00 10.00	A_13
ATOM	347	С	PHE	39	85.955	42.827	11.589		W_13
ATOM	348	ŏ	PHE	39	86.382			1.00 16.52	A_13
ATOM	349	N				41.689	11.387	1.00 19.70	A_13
			LYS	40	86.699	43.822	12.072	1.00 21.31	· A_13
ATOM	351	CA	LYS	40	88.117	43.673	12.369	1.00 20.07	A_13
MOTA	352	CB	LYS	40	88.703	44.967	12.927	1.00 13.77	A_13
MOTA	353	CG	LYS	40	90.192	44.885	13.171	1.00 11.54	A_13
MOTA	354	CD	LYS	40	90.757	46.242	13.507	1.00 10.34	A_13
MOTA	355	CE	LYS	40	92.236	46.142	13.838	1.00 11.24	7_13
ATOM	356	NZ	LYS	40	92.468	45.518	15.179		A_13
ATOM	360	C.	LYS	40	88.352			1.00 27.33	A_13
ATOM	361	ŏ	LYS		00.332	42.534	13.337	1.00 12.06	A_13
ATOM				40	89.252	41.719	13.124	1.00 25.09	A_13
	362	N	VAL	41	87.495	42.418	14.349	1.00 12.26	A_13
MOTA	364	CA	VAL	41.	87.630	41.331	15.325	1.00 17.89	A_13
MOTA	365	CB	VAL	41	86.351	41.205	16.216	1.00 10.00	A_13
MOTA	366	CG1	VAL	41	86.298	39.865	16.894	1.00 23.82	
ATOM	367		VAL	41	86.329	42.274			A_13
ATOM	368	c	VAL	41			17.259	1.00 17.65	A_13
ATOM	369				87.822	40.009	14.560	1.00 23.06	A_13
		0	VAL	41	88.664	39.168	14.912	1.00 11.82	A_13
MOTA	370	N	TRP	42	87.069	39.871	13.471	1.00 21.42	A_13
MOTA	372	CA	TRP	42	87.085	38.666	12.661	1.00 21.32	A_13
MOTA	373	CB	TRP	42	85.713	38:476	12.009	1.00 18.84	A_13
MOTA	374	CG	TRP	42	84.605	38.387	13.025	1.00 25.92	A_13
MOTA	375		TRP	42	84.437	37.369			M_13
ATOM	376		TRP	42			14.024	1.00 16.65	A_13
ATOM	377				83.260	37.680	14.737	1.00 17.58	A_13
			TRP	42	85.165	36.223	14.380	1.00 11.14	A_13
ATOM	378	CD1		42	83.563	39.249	13.179	1.00 10.00	A_13
MOTA	379	NE1		42	82.755	38.832	14.200	1.00 10.91	A 13
ATOM	381	CZ2	TRP	42	82.785	36:879	15.793	1.00 14.81	A_13
MOTA	382	CZ3	TRP	42	84.691	35.425	15.436	1.00 23.68	A_13
MOTA	383		TRP	42	83.513	35.759	16.125		
ATOM	384	C	TRP	42	88.190			1.00 12.75	A_13
		-	• • • • •	74	00.130	38.600	11.623	1.00 27.45	A_13

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ATOM	385	.0	TRP	42	88.834	37.556	11.472	1.00 11.84	A_13
MOTA	386	N	SER	43	88.413	39.702	10.909	1.00 25.46	A_13
MOTA	388	CA	SER	43	89.449	39.740	9.881	1.00 19.61	A_13
MOTA	389	CB	SER	43	89.342	40.993	8.991	1.00 16.16	A_13
MOTA	390	OG	SER	43	89.495	42.199	9.709	1.00 26.34	A_13
MOTA	392	С	SER	43	90.837	39.615	10.491	1.00 11.53	A_13
MOTA	393	0	SER	43	91.758	39.119	9.834	1.00 17.99	A_13
MOTA	394	N	ASP	44	90.949	39.973	11.771	1.00 10.00	A_13
ATOM	396	CA	ASP	44	92.206	39.908	12.505	1.00 16.90	A_13
MOTA	397	CB	ASP	44	92.057	40.588	13.857	1.00 17.79	·A_13
MOTA	398	CG	ASP	44	92.544	42.013	13.839	1.00 15.93	A_13
MOTA	399	OD1	ASP	44	92.605	42.618	14.920	1.00 17.21	A_13
MOTA	400	OD2	ASP	44	92.874	42.533	12.754	1.00 19.50	A_13
MOTA	401	С	ASP	44	92.781	38.523	12.729	1.00 26.12	A_13
MOTA	402	0	ASP	44	93.996	38.362	12.897	1.00 21.21	A_13
ATOM	403	И.	VAL	45	91.911	37.523	12.745	1.00 20.89	A_13
MOTA	405	CA	VAL	45	92.353	36.161	12.996	1.00 27.53	A_13
ATOM	406	CB	VAL	45	91.853	35.678	14.381	1.00 16.30	A_13
ATOM ·	407	CG1	VAL	45	92.557	36.472	15.504	1.00 10.00	A_13
MOTA	408	CG2	VAL	. 45	90.348	35.857	14.495	1.00 10.86	A_13
ATOM	409	C	VAL	45	91.928	35.187	11.911	1.00 24.33	A_13
ATOM	410	0	VAL	45	91.864	33.978	12.157	1,00 18.84	A_13
MOTA	411	N	THR	46	91.750	35.705	10.694	1.00 16.30	À_13
MOTA	413	CA	THR	46	91.293	34.893	9.574	1,00 14.48	A_13
MOTA	414	CB	THR	46	89.750	34.796	9.662	1.00 22.05	A_13
MOTA	415		THR	46	89.279	33.609	9.028	1.00 31.53	A_13
MO:TA	417		THR	46	89.112	36.014	9.040	1.00 10.99	A_13
MOTA	418	Ç	THR	46	91.716	35.575	8.257	1.00 25.10	A_13
ATOM	419	0	THR	46	92.022	36.764	8.256	1.00 17.64	A_13
MOTA	420	N	PRO	47	91.688	34.845	7.114	1.00 15.31	A_13
MOTA	421	CD	PRO	47	91.459	33.398	6.985	1.00 17.94	A_13
MOTA	422	CA	PRO	47	92.069	35.416	5.815	1.00 21.50	A_13
MOTA	423	CB	PRO	47	92.199	34.182	4.911	1.00 17.57	A_13
MOTA	424	CG	PRO	47	92.369	33.041	5.848	1.00 27.45	A_13
MOTA	425	C	PRO	47	90.991	36.348	5.256	1.00 21.44	A_13
ATOM	426 427	0	PRO	. 47	91.095	36.788	4.116	1.00 11.08	A_13
ATOM ATOM	429	N	LEU	48	89.918	36.567	6.018	1.00 10.00	A_13
ATOM	430	CA CB	LEU	48 48	88.826 87.575	37.434		1.00 22.09	A_13
ATOM	431	CG	LEU	48	86.848	37.212	6.432	1.00 15.92 1.00 13.58	A_13
ATOM	432		LEU	48	85.931	35.867 35.811	6.435 7.654		A_13
ATOM	433		LEU	48	86.073	35.666	5.157	1.00 25.90 1.00 16.47	A_13
ATOM	434	C	LEU	48	89.156	38.916	5.641	1.00 10.47	A_13 A_13
ATOM	435	ŏ	LEU	48	89.936	39.366	6.480	1.00 21.20	A_13
ATOM	436	N	ASN	49	88.569	39.670	4.723	1.00 26.12	A_13
ATOM	438	CA	ASN	49	88.738	41.112	4.717	1.00 26.84	A_13
ATOM	439	СВ	ASN	49	89.936	41.569	3.885	1.00 18.29	A_13
ATOM	440	CG	ASN	49	90.010	40.912	2.568	1.00 22.55	A_13
ATOM	441		ASN	49	90.928	40.131	2.305	1.00 24.41	A_13
MOTA	442		ASN	49	89.068	41.235	1.693	1.00 46.51	A_13
ATOM	445		ASN	49	87.416	41.705	4.259	1.00 12.18	A_13
ATOM	446	ō	ASN	49	86.732	41.128	3.400	1.00 20.77	A_13
ATOM	447	N	PHE	50	87.025	42.802	4.900	1.00 21.39	A 13
MOTA	449	CA	PHE	50	85.738	43.439	4.642	1.00 10.00	A_13
MOTA	450	CB	PHE	50	84.914	43.440	5.932	1.00 11.45	A_13
MOTA	451	CG	PHE	50	84.863	42.098	6.629	1.00 10.63	A_13
MOTA	452	CD1	PHE	50	85.886	41.705	7.490	1.00 10.00	A_13 A_13
MOTA	453	CD2	PHE	50	83.809	41.216	6.395	1.00 14.63	A_13
MOTA	454		PHE	50	85.858	40.457	8.097	1.00 26.88	A_13
ATOM	455	CE2	PHE	50	83.773	39.963	7.000	1.00 21.13	A_13
MOTA	456	CZ	PHE	50	84.801	39.581	7.852	1.00 10.30	A_13
MOTA	457	C	PHE	50·	85.867	44.842	4.093	1.00 22.56	A_13
ATOM	458	0	PHE	50	86.638	45.644	4.612	1.00 19.33	A_13
ATOM	459	N	THR	51	85.099	45.129	3.044	1.00 21.47	A 13
ATOM	461	CA	THR	51	85.125	46.433	2.371	1.00 24.21	A_13
ATOM	462	CB	THR	51	85.602	46.306	0.895	1.00 15.39	A_13
MOTA	463		THR	51	86.950	45.811	0.853	1.00 24.33	A_13
MOTA	465	CG2	THR	51	85.551	47.654	0.192	1.00 25.47	A_13
MOTA	466	С	THR	51	83.735	47.048	2.359	1.00 22.17	A_13
MOTA	467	0	THR	51	82.766	46.421	1.912	1.00 20.53	A_13
MOTA	468	N	ARG	52	83.653	48.294	2.797	1.00 16.53	A_13
ATOM	470	CA	ARG	52	82.393	49.004	2.871	1.00 10.00	A_13
ATOM	471	СВ	ARG	52	82.490	50.085	3.939	1.00 10.00	A_13
ATOM	472	CG	ARG	52	81.201	50.778	4.259	1.00 12.47	A_13
ATOM	473	CD	ARG	52	81.462	51.879	5.278	1.00 19.61	A_13
ATOM	474	NE	ARG	52	80.371	52.836	5.333	1.00 30.55	A_13
MOTA	476	CZ	ARG	52	80.489	54.074	5.795	1.00 24.06	A_13

3.000	177	ATL 1 A D.C.	52	01 661	E4 E00	6 257	1 00 21 24	8 12
MOTA	477	NH1 ARG		81.661	54.508	6.257	1.00 21.24	A_13
MOTA	480	NH2 ARG	52	79.421	54.862	5.829	1.00 27.78	A_13
ATOM	483	C ARG	52	81.980	49.620	1.540	1.00 30.22	A_13
ATOM	484	O ARG	52	82.782	50.269		1.00 16.27	A_13
MOTA	485	N LEU	53	80.730	49.372	1.161	1.00 21.07	A_13
ATOM	487	CA LEU	53	80.159	49.914	-0.062	1.00 15.73	A_13
ATOM	488	CB LEU	53	79.435	48.831	-0.868	1.00 11.53	A_13
								7-13
MOTA	489	CG LEU	53	80.304	47.770	-1.530	1.00 10.00	A_13
ATOM	490	CD1 LEU	53	79:429	46.790	-2.296	1.00 13.21	A_13
MOTA	491	CD2 LEU	53	81.280	48.443	-2.448	1.00 12.78	A_13
ATOM	492	C LEU	53	79.149	50.932	0.421	1.00 10.00	A_13
ATOM	493	O LEU	53	78.463	50.713	1.411	1.00 13.62	A_13
	494		54	79.043		-0.283		A_13
ATOM		N HIS			52.041		1.00 15.73	W_13
MOTA	496	CA HIS	54	78.102	53.065	0.126	1.00 12.47	A_13
MOTA	497	CB HIS	54	78.765	54.435	0.011	1.00 15.18	A_13
MOTA	498	CG HIS	54	79.967	54.589	0.884	1.00 21.27	A_13
MOTA	499	CD2 HIS	54	81.207	54.056	0.798	1.00 25.30	A_13
ATOM	500	ND1 HIS	54	79.951	55.338	2.043	1.00 16.48	A_13
MOTA	502	CE1 HIS	54	81.127	55.255	2.633	1.00 21.62	A_13
	503					1 000		7-13
MOTA		NE2 HIS	54	81.910	54.482	1.899	1.00 29.91	A_13
ATOM	505	C HIS	54	76.796	53.044	-0.664	1.00 15.50	A_13
MOTA	506	O HIS	54	75.914	53.849	-0.403	1.00 21.80	A_13
MOTA	507	N ASP	55	76.707	52.178	-1.671	1.00 18.31	A_13
ATOM	509	CA ASP	55	75.509	52.077	-2.502	1.00 17.23	A_13
ATOM	510	CB ASP	55	75.645	52.928	-3.773	1.00 19.94	A_13
ATOM	511	CG ASP	55	75.864	54.393	-3.495	1.00 26.81	A_13
							1.00 20.01	
ATOM	512	OD1 ASP	55	75.059	54.991	-2.741	1.00 35.97	A_13
MOTA	513	OD2 ASP	55	76.839	54.948	-4.058	1.00 25.09	A_13
MOTA	514	C ASP	55	75.343	50.645	~2.970	1.00 21.50	A_13
ATOM	515	O ASP	. 55	76.286	49.862	-2.929	1.00 17.45	A_13
ATOM	516	N GLY	56	74.160	50.337	-3.489	1.00 10.31	A_13
ATOM	518	CA GLY	56	73.897	49.014	-4.014	1.00 13.67	A_13
ATOM	519		56	73.842		-3.030	1.00 17.61	
					47.869			A_13
MOTA	520	O GLY	56	73.683	48.065	-1.825	1.00 12.57	A_13
ATOM	521	N ILE	57	73.943	46.653	-3.560	1.00 22.27	A_13
MOTA	. 523	CA ILE	57	73.895	45.460	-2.737	1.00 11.39	A_13
MOTA	524	CB ILE	57	72.941	44.391	-3.347	1.00 22.87	A_13
MOTA	525	CG2 ILE	57	73.365	42.995	-2.955	1.00 22.98	A_13
MOTA	526		. 57	71.522	44.582	-2.787	1.00 30.87	A_13
ATOM	527	CD1 ILE	57	71.002	46.022	-2.796	1.00 28.15	A_13
MOTA	528	C ILE	57	75.289	44.919	-2.446	1.00 22.32	A_13
MOTA	529	O ILE	57	76.140	44.849	-3.332	1.00 25.00	A_13
MOTA	530	N ALA	58	75.517	44.631	-1.168	1.00 25.02	A_13
MOTA	532	CA ALA	58	76.773	44.105	-0.669	1.00 15.45	A_13
ATOM	533	CB ALA	58	77.366	45.060	0.358	1.00 11.62	A_13
	534		58					N_13
ATOM		C ALA		76.438	42.780	-0.006	1.00 12.08	A_13
MOTA	535	O ALA	58	75.289	42.521	0.307	1.00 13.30	A_13
MOTA	536	n asp	59	77.449	41.968	0.247	1.00 14.79	A_13
MOTA	538	CA ASP	59	77.245	40.675	0.880	1.00 18.50	A_13
MOTA	539	CB ASP	59	78.608	39.974	1.093	1.00 10.83	A_13
ATOM	540	CG ASP	59	79.425	39.858	-0.210	1.00 23.35	A_13
ATOM	541	OD1 ASP	59	80.598	40.266		1.00 17.98	A_13
	542		59			4 000		
ATOM		OD2 ASP		78.896	39.379	-1.230	1.00 16.89	A_13
ATOM	543	C ASP	59		40.806	2.200	1.00 13.69	A_13
MOTA	544	O ASP	59	75.402	40.227	2.380	1.00 15.93	A_13
ATOM	545	N ILE	60	77.025	41.596	3.109	1.00 13.15	A_13
MOTA	547	CA ILE	60	76.422	41.800	4.412	1.00 12.20	A_13
ATOM	548	CB ILE	60	77.500	41.695	5.508	1.00 12.12	A_13
MOTA	549	CG2 ILE	60	76.921	42.060	6.864	1.00 19.27	A_13
				78.118	42.000			
ATOM	550	CG1 ILE	60		40.287	5.481	1.00 10.00	A_13
ATOM	551	CD1 ILE	60	79.330	40.120	6.360	1.00 10.00	A_13
MOTA	552	C ILE	60	75.743	43.164	4.456	1.00 17.78	` A_13
MOTA	553	O ILE	60	76.410	44.193	4.478	1.00 18.65	A_13
ATOM	554	N MET	61	74.416	43.168	4.431	1.00 12.54	A_13
ATOM	556	CA MET	61	73.640	44.416	4.476	1.00 12.86	A_13
MOTA				72.385	44 244			ú-13
	557	CB MET	61		44.314	3.604	1.00 18.16	A_13
MOTA		CG MET	61	72.634	43.979	2.141	1.00 10.00	A_13
MOTA	559	SD MET	61	73.374	45.314	1.251	1.00 10.69	A_13
MOTA	560	CE MET	61	71.836	46.299	0.764	1.00 10.00	A_13
ATOM	561	C MET	61	73.239	44.666	5.921	1.00 10.15	A_13
ATOM	562	O MET	61	72.584	43.838	6.547	1.00 18.13	A_13
MOTA	563		62	73.706				<u> </u>
		N ILE			45.784	6.456	1.00 15.60	A_13
MOTA	565	CA ILE	62	73.452	46.170	7.837	1.00 18.55	A_13
MOTA	566	CB ILE	62	74.723	46.828	8.437	1.00 10.00	A_13
MOTA	567	CG2 ILE	62	74.498	47.163	9.900	1.00 26.36	A_13
ATOM	568	CG1 ILE	62	75.936	45.897	8.302	1.00 11.04	A_13
ATOM	569	CD1 ILE	62	77.228	46.481	8.891	1.00 10.00	A_13
	202	CDT THE	02		40.40T	0.071	7.00 TO.00	W_T3

		,							
ATOM	570	C	ILE	62	72.289	47.172	7.920	1.00 17.99	A_13
ATOM	571	ō	ILE	62	72.335	48.208	7.264	1.00 12.72	
									A_13
ATOM	572	N	SER	63	71.285	46.896	8.751	1.00 10.00	A_13
MOTA	574	CA	SER	63	70.149	47.803	8.882	1.00 12.52	A_13
ATOM	575	CB	SER	63	69.016	47.364	7.956	1.00 13.06	A_13
MOTA	576	OG	SER	63	68.448	46.146	8.415	1.00 27.90	A_13
	578		SER	63	69.625			1.00 13.14	
MOTA		C				47.854	10.314		A_13
MOTA	579	0	SER	63	69.869	46.951	11.101	1.00 22.10	A_13
MOTA	580	N	PHE	64	68.919	48.932	10.640	1.00 21.17	A_13
MOTA	582	CA	PHE	64	68.317	49.139	11.954	1.00 22.01	A_13
				64					7-13
MOTA	583	CB	PHE		68.777	50.468	12.574	1.00 10.98	A_13
MOTA	584	CG	PHE	64	70.189	50.448	13.092	1.00 10.00	A_13
MOTA	585	CD1	PHE	64	70.473	49.885	14.322	1.00 10.00	A_13
MOTA	586	CD2	PHE	64	71.229	51.016	12.357	1.00 16.56	A_13
ATOM	587	CE1		64	71.777	49.885	14.825	1.00 10.00	
									A_13
MOTA	588		PHE	64	72.540	51.025	12.846	1.00 10.00	A_13
ATOM	589	CZ	PHE	64	72.812	50.459	14.081	1.00 18.83	A_13
MOTA	590	С	PHE	64	66.825	49.207	11.675	1.00 22.55	A_13
ATOM	591	ō	PHE	64	66.405	49.940	10.779	1.00 19.49	A_13
									W_13
MOTA	592	N	GLY	65	66.031	48.485	12.453	1.00 13.69	A_13
MOTA	594	CA	GLY	65	64.593	48.491	12.238	1.00 10.70	A_13
MOTA	595	С	GLY	65	63.894	48.138	13.521	1.00 12.62	A_13
MOTA	596	0	GLY	65	64.559	47.777	14.491	1.00 18.29	A_13
ATOM	597	N	ILE	66	62.577	48.309	13.565	1,00 13.69	A_13
							13.303		
MOTA	599	CA	ILE	66	61.803	47.968	14.760	1.00 21.58	A_13
MOTA	600	CB	ILE	66	61.227	49.228	15.503	1.00 30.51	A_13
MOTA	601	CG2	ILE	66	62.351	50.110	16.025	1.00 10.43	A_13
MOTA	602		ILE	66	60.332	50.062	14.586	1.00 14.56	A_13
	603		ILE	66	59.587			1.00 16.94	7-13
MOTA						51.149			A_13
MOTA	604	С	ILE	66	60.662	47.030	14.361	1.00 10.81	A_13
ATOM	. 605	0	ILE	66	60.311	46.962	13.188	1.00 10.00	A_13
ATOM	606	N	LYS	67	60.143	46.271	15.330	1.00 10.00	A_13
ATOM	608	CA	LYS	67	59.036	45.327	15.103	1.00 10.23	
									A_13
MOTA	609	CB	LYS	67	57.689	46.042	15.268	1.00 10.29	A_13
ATOM	610	CG	LYS	67	57.584	46.895	16.510	1.00 14.63	A_13
MOTA	611	CD	LYS	· 67	57.646	46.056	17.774	1.00 14.94	A_13
ATOM	612	CE	LYS	67	57.382	46.923	18.986	1.00 22.99	A_13
	613								V-13
ATOM		NZ	LYS	67	57.480		20.258	1.00 28.27	A_13
MOTA	617	С	LYS	67	59.113	44.633	13.726	1.00 17.91	A_13
MOTA	618	0	LYS	67	60.167	44.106	13.366	1.00 24.16	. A_13
ATOM	619	N	GLU	68	58.027	44.690	12.949	1.00 12.72	A_13
ATOM	621	CA	GLU	68	57.960		11.624		
						44.067		1.00 16.06	A_13
MOTA	622	CB	GLU	68	56.505	44.019	11.128	1.00 26.89	A_13
ATOM	623	CG	GLU	68	55.566	43.258	12.087	1.00 36.97	A_13
ATOM	624	CD	GLU	68	54.217	43.973	12.381	1.00 41.61	A_13
ATOM	625	OE1	GLU	68	53.289	43.921	11.537	1.00 17.31	A_13
ATOM	626		GLU	68	54.074			1.00 26.72	A_13
						44.561	13.485		A_13
MOTA	627	C	GLU	68	58.823	44.911	10.705	1.00 22.50	A_13
MOTA	628	0	GLU	68	58.587	46.093	10.532	1.00 20.64	A_13
ATOM	629	N	HIS	69	59.848	44.315	10.120	1.00 16.43	A_13
ATOM	631	CA	HIS	69	60.732	45.102	9.283	1.00 13.69	A_13
ATOM	632	СВ	HIS	69	61.930	45.603	10.103	1.00 10.97	
ATOM	633			69	62.706				
			HIS		62.786	44.502	10.643	1.00 24.02	A_13
ATOM	634		HIS	69	63.873	43.876	10.133	1.00 10.00	A_13
ATOM	635		HIS	69	62.512	43.876	11.839	1.00 17.68	A_13
MOTA	637	CE1	HIS	69	63.384	42.912	12.041	1.00 12.53	A_13
MOTA	638		HIS	69	64.228	42.888	11.020	1.00 10.00	A_13
ATOM	639	C	HIS	69	61.214		7.983		A_13
						44.469		1.00 21.28	
MOTA	640	0	HIS	69	62.314	44.780	7.529	1.00 18.74	A_13
MOTA	641	N	GLY	70	60.451	43.537	7.411	1.00 13.11	A_13
ATOM	643	CA	GLY	70	60.832	42.968	6.127	1.00 10.00	A_13
ATOM	644	C	GLY	70	61.262	41.533	5.936	1.00 10.00	A_13
ATOM	645	ŏ	GLY	70		41 105			7 12
					61.523	41.125	4.794	1.00 15.12	A_13
MOTA	646	N	ASP	71	61.412	40.768	7.012	1.00 19.99	A_13
MOTA	648	CA	ASP	71	61.842	39.381	6.862	1.00 19.99	A_13
ATOM	649	CB	ASP	71	63.332	39.223	7.218	1.00 10.00	A_13
ATOM	650	CG	ASP	71			8.592		7 13
	651				63.672	39.752		1.00 23.52	A_13
ATOM			ASP	71	64.846	40.110	8.803	1.00 13.38	A_13
MOTA	652	OD2	ASP	71	62.774	39.812	9.464	1.00 12.94	A_13
MOTA	653	C	ASP	71	60.998	38.377	7.632	1.00 22.07	A_13
MOTA	654	ŏ	ASP	71	61.319	37.190	7.649	1.00 24.45	A_13
ATOM	655	Ŋ		72					
			PHE		59.946	38.865	8.292	1.00 14.15	A_13
ATOM	657	CA	PHE	72	59.040	38.035	9.094	1.00 10.00	A_13
MOTA	658	CB	PHE	72	58.410	36.905	8.272	1.00 10.00	A_13
MOTA	659	CG	PHE	72	57.360	37.387	7.332	1.00 10.00	. A_13
ATOM	660		PHE	72	56.115	37.773	7.815	1.00 23.01	A_13
MOTA	661		PHE	72			5.973	1.00 12.52	A_13
	201		- 1115		57.624	37.507	5.713	1.00 12.32	w_r ₂

ATOM	662	CE1	PHE	72	55.144	38.290	6.950	1.00 18.99	A_13
MUTA	663	CE2	PHE	72	56.662	38.023	5.091	1.00 13.37	A_13
	664	CZ	PHE	72		38.413	5.576	1.00 22.50	A_13
MOTA					55.420				A_13
MOTA	665	Ç	PHE	72	59.634	37.523	10.392	1.00 16.31	A_13
MOTA	666	0	PHE	72	59.111	36.596	11.021	1.00 15.64	A_13
MOTA	667	N	TYR	73	60.737	38.141	10.793	1.00 18.10	A_13
MOTA	669	CA	TYR	73	61.407	37.827	12.046	1.00 14.01	A_13
									7_13
MOTA	670	CB	TYR	73	62.845	37.331	11.803	1.00 21.08	A_13
MOTA	671	CG	TYR	73	62.915	35.965	11.138	1.00 22.48	A_13
MOTA	672	CD1	TYR	73	63.579	35.788	9.923	1.00 30.23	A_13
ATOM	.673	CEI		73	63.615	34.538	9.291	1.00 24.04	A_13
									7-13
MOTA	674		TYR	73		34.856	11.710	1.00 19.23	A_13
MOTA	675	CE2	TYR	73	62.320	33.606	11.083	1.00 29.35	A_13
ATOM	676	CZ	TYR	73	62.984	33.460	9.875	1.00 12.50	A_13
ATOM	677	OH	TYR	73	63.018	32.246	9.241	1.00 17.89	A_13
	679	c.		73			12.721	1.00 22.00	
MOTA			TYR		61.360	39.203			A_13
MOTA	680	0	TYR	73	62.365	39.919	12.819	1.00 10.93	A_13
ATOM	681	N	PRO	74	60.175	39.570	13.221	1.00 19.94	A_13
ATOM	682	CD	PRO	74	58.969	38.723	13.278	1.00 15.69	A_13
	683	-		74	59.934		13.886		
MOTA		CA	PRO			40.843		1.00 16.75	A_13
MOTA	684	CB	PRO	74	58.417	40.836	14.067	1.00 17.27	A_13
MOTA	685	CG	PRO	74	58.131	39.407	14.335	1.00 16.24	A_13
ATOM	686	С	PRO	74	60.640	41.037	15.216	1.00 17.39	A_13
ATOM	687	ŏ	PRO	74	60.779	40.105	16.023	1.00 10.00	A_13
ATOM	688	N	PHE	75	61.098	42.264	15.431	1.00 10.00	A_13
ATOM	690	CA	PHE	75	61.743	42.618	16.675	1.00 16.45	A_13
MOTA	691	CB	PHE	75	62.613	43.865	16.512	1.00 20.71	A_13
MOTA	692	CG	PHE	75	63.931	43.590	15.841	1.00 23.32	A_13
	693			75					3 13
MOTA			PHE		64.694	42.482	16.200	1.00 12.03	A_13
ATOM	694	CD2	PHE	· 75	64.405	44.420	14.842	1.00 22.30	A_13
MOTA	695	CE1	PHE	75	65.905	42.214	15.572	1.00 17.64	A_13
MOTA	696	CE2	PHE	75	65.622	44.148	14.208	1.00 15.43	A_13
ATOM	697	CZ	PHE	75	66.367	43.044	14,576	1.00 10.00	A_13
MOTA	698	Ç	PHE	75	60.632	42.784	17.707	1.00 25.73	A_13
MOTA	699	0	PHE	75	59.443	42.778	17.370	1.00 18.57	A_13
ATOM	700	N	ASP	76	61.009	43.002	18.952	1.00 20,50	A_13
ATOM	702	CA	ASP	76	60.023	43.049	20.006	1.00 13.89	A_13
									W_13
MOTA	703	CB	ASP	76	60.241	41.805	20.873	1.00 20.69	A_13
MOTA	704	CG	ASP	76	61.672	41.685	21.378	1.00 22.52	A_13
ATOM	705	OD1	ASP	76	61.947	40.771	22.174	1.00 20.06	A_13
ATOM	706		ASP	76	62.525	42.506	20.998	1.00 10.69	A_13
ATOM	707	C		76	59.971				7-13
			ASP			44.277	20.900	1.00 25.20	A_13.
MOTA	708	0	ASP	76 _.	59.397	44.207	21.986	1.00 29.52	A_13
MOTA	709	N	GLY	77	60.585	45.379	20.488	1.00 10.00	A_13
MOTA	711	CA	GLY	77	60.575	46.553	21.334	1.00 10.00	A_13
ATOM	712	C	GLY	77	61.769	46.514	22.266	1.00 10.00	A_13
ATOM	713	ō		77					~_+3
			GLY		62.735	45.797	21.987	1.00 18.49	A_13
ATOM	714	N	PRO	78	61.785	47.344	23.322	1.00 16.07	A_13
MOTA	715	CD	PRO	78	60.790	48.426	23.505	1.00 15.88	A_13
MOTA	716	CA	PRO	78	62.855	47.439	24.330	1.00 16.23	A_13
ATOM	717	CB	PRO	78	62.261	48.391	25.363	1.00 22.96	A_13
									- A_13
MOTA	718	CG	PRO	78	61.470	49.349	24.501	1.00 22.37	A_13
ATOM	719	С	PRO	78	63.150	46.090	24.969	1.00 25.32	A_13
MOTA	720	0	PRO	78	62.227	45.356	25.272	1.00 20.04	A_13
ATOM	721	N	SER	79	64.432	45.750	25.099	1.00 20.93	A_13
ATOM	723	CA	SER	79	64.878	44.478	25.689		
								1.00 20.51	A_13
MOTA	724	CB	SER	79	64.364	44.311	27.131	1.00 23.69	A_13
ATOM	725	OG	SER	79	65.028	45.211	28.006	1.00 33.37	A_13
MOTA	727	C	SER	79.	64.557	43.248	24.863	1.00 20.39	A_13
MOTA	728	0	SER	79	64.124	43.362	23.708	1.00 17.27	A_13
ATOM	729			80					
		N	GLY		64.825	42.071	25.415	1.00 13.38	A_13
MOTA	731	CA	GLY	80	64.564	40.850	24.678	1.00 10.11	A_13
ATOM	732	С	GLY	80	65:471	40.808	23.458	1.00 13.15	A_13
ATOM	733	0	GLY	80	66.614	41.251	23.538	1.00 31.80	A_13
ATOM	734	N							
			LEU	81	64.939	40.393	22.310	1.00 29.05	A_13
MOTA	736	CA	LEU	81	65.720	40.317	21.078	1.00 29.63	A_13
MOTA	737	CB	LEU	81	64.789	40.033	19.905	1.00 19.67	A_13
ATOM	738	CG	LEU	81	65.121	38.872	18.971	1.00 21.79	A_13
ATOM	739		LEU	81	64.215				7_13
						38.980	17.773	1.00 23.87	A_13
ATOM	740		LEU	81	66.590	38.918	18.518	1.00 22.09	A_13
ATOM	741	С	LEU	81	66.442	41.649	20.835	1.00 19.25	A_13
MOTA	742	0	LEU	81	65.808	42.700	20.872	1.00 14.95	A_13
ATOM	743	N	LEU	82	67.760	41.599			
ATOM							20.657	1.00 25.03	A_13
	745	CA	LEU	82	68.573	42.795	20.421	1.00 27.35	A_13
MOTA	746	CB	LEU	82	69.868	42.747	21.244	1.00 12.74	A_13
MOTA	747	CG	LEU	82	69.802	42.748	22.773	1.00 16.50	A_13
ATOM	748	CD1	LEU	82	68.590	43.520	23.263	1.00 17.99	A_13
		-				520	20.203		

'									
ATOM	749	CD2	T.FIT	82	69.744	41.343	23.279	1.00 13.28	A_13
									7-13
MUTA	750		LEU	82	68.938	42.945	18.949	1.00 24.79	A_13
ATOM	751	0	LEU	82	68.812	44.039	18.363	1.00 14.36	A_13
ATOM	752	N	ALA	83	69.387	41.839	18.359	1.00 21.15	A_13
ATOM	754		ALA	83	69.790	41.819	16.961	1.00 15.64	A_13
	755			83					2-13
MOTA			ALA		71.180	42.410	16.820	1.00 15.74	A_13
MOTA	756	С	ALA	83	69.806	40.400	16.444	1.00 19.37	A_13
ATOM	757	0	ALA	83	69.864	39.458	17.227	1.00 20.42	A_13
ATOM	758		HIS	84	69.746	40.252	15.126	1.00 10.72	A_13
									W_13
ATOM	760	CA	HIS	84	69.808	38.939	14.502	1.00 20.51	A_13
ATOM	761	CB	HIS	84	68.454	38.185	14.476	1.00 12.34	A_13
MOTA	762	CG	HIS	84	67.361	38.849	13.679	1.00 24.79	A_13
MOTA	763	CD2		84	67.381	39.489	12.488	1.00 10.00	A_13
ATOM	764	ND1	HIS	84	66.052	38.869	14.104	1.00 13.50	A_13
MOTA	766	CE1	HIS	84	65.307	39.497	13.210	1.00 14.37	A_13
ATOM	767	NE2		84 .	66.087	39.886	12.220	1.00 15.00	A_13
						39.000			
MOTA	768	С	HIS	84	70.418	39.088	13.130	1.00 22.78	A_13
MOTA	769	0	HIS	84	70.338	40.162	12.532	1.00 10.00	A_13
ATOM	770	N	ALA	85	71.086	38.027	12.685	1.00 13.43	A_13
	772	CA		85	71.746	37.983			3 13
ATOM			ALA				11.402	1.00 10.00	A_13
ATOM	773	CB	ALA	85	73.234	38.132	11.596	1.00 10.05	A_13
MOTA	774	С	ALA	85	71.426	36.661	10.721	1.00 17.89	A_13
ATOM	775	0	ALA	85	70.900	35.746	11.346	1.00 19.43	A_13
ATOM	776	N	PHE	86	71.697	36.585	9.425	1.00 13.49	À_13
								1.00 13.49	
ATOM	778	CA	PHE	86	71.459	35.372	8.651	1.00 12.49	A_13
MOTA	779	CB	PHE	86	70.739	35.728	7.344	1.00 10.00	A_13
MOTA	7.80	CG	PHE	86	69.348	36.240	7.529	1.00 19.96	A_13
	781								
ATOM		CD1		86	68.252	35.434	7.212	1.00 21.89	A_13
ATOM	782	CD2	PHE	86	69.119	37.530	8.003	1.00 10.63	A_13
ATOM	783	CE1	PHE	86	66.946	35.900	7.364	1.00 16.59	A_13
ATOM	784	CE2		86	67.829	38.009	8.158	1.00 19.06	A_13
									Q-13
ATOM	785	CZ	PHE	86	66.732	37.194	7.838	1.00 24.79	A_13
MOTA	786	С	PHE	86	72.802	34.721	8.298	1.00 11.05	A_13
ATOM	787	0	PHE	86	73.774	35.435	8.041	1.00 25.56	A_13
ATOM	788	N	PRO	87	72.892	33.375	8.304	1.00 19.41	A_13
									M_13
MOTA	789	CD	PRO	- 87	71.876	32.383	8.717	1.00 17.25	A_13
ATOM	790	CA	PRO	87	74.149	32.686	7.956	1.00 29.29	A_13
ATOM	791	CB	PRO	87	73.800	31.198	8.135	1.00 18.88	A_13
MOTA	792	CG	PRO	87	72.329				7 13
						31.160	7.939	1.00 20.17	A_13
ATOM	793	С	PRO	87	74.562	32.999	6.503	1.00 10.00	. A_13
ATOM	794	0	PRO	87	73.728	33.448	5.703	1.00 20.68	A_13
ATOM	795	N	PRO	88	75.814	32.701	6.120	1.00 10.00	A_13
MOTA	796	CD	PRO	88	76.796	31.854	6.831	1.00 19.58	A_13
ATOM	797	CA	PRO	88	76.280	32.977	4.756	1.00 12.43	A_13
MOTA	798	CB	PRO	88	77:600	32.201	4.676	1.00 18.69	A_13
ATOM	799	CG	PRO	88					
					78.073	32.163	6.098	1.00 18.48	A_13
MOTA	800	С	PRO	88	75.304	32.510	3.672	1.00 24.39	· A_13
MOTA	801	0	PRO	88	74.596	31.522	3.854	1.00 16.92	A_13
ATOM	802	N	GLY	89	75.266	33.230	2.560	1.00 10.73	A_13
ATOM	804	CA	GLY	89	74.386	32.868	1.471	1.00 10.00	A_13
MOTA	805	С	GLY	89	73.960	34.127	0.772	1.00 10.94	A_13
MOTA	806	0	GLY	89	74.143	35.218	1.307	1.00 19.86	A_13
ATOM	807	N	PRO	90	73.390	34.019	-0.432	1.00 26.31	A_13
									3-13
MOTA	808	CD	PRO	90	73.090	32.792	-1.192	1.00 18.46	A_13
MOTA	809	CA	PRO	90	72.960	35.212	-1.163	1.00 25.07	A_13
ATOM	8,10	CB	PRO	90	72.670	34.651	-2.556	1.00 15.47	A_13
ATOM	811	CG	PRO	90	72.108	33.289	-2.236	1.00 24.63	A_13
MOTA	812								7.13
		C	PRO	90	71.726	35.879	-0.543	1.00 20.41	A_13
MOTA	813	0	PRO	90	71.176	35.390	0.442	1.00 17.00	A_13
ATOM	814	N	ASN	91	71.303	37.000	-1.125	1.00 18.43	A_13
ATOM	816	CA	ASN	91	70.127	37.721	-0.653	1.00 14.03	A_13
	817								~-::
ATOM		CB	ASN	91	68.863	36,932	-0.999	1.00 15.26	A_13
ATOM	818	CG	ASN	91	68.860	36.430	-2.439	1.00 36.74	A_13
ATOM	819	OD1	ASN	91	68.497	35.282	-2.701	1.00 29.56	A_13
ATOM	820		ASN	91	69.265	37.286	-3.376	1.00 27.03	2 13
									A_13
ATOM	823	C	ASN	91	70.226	37.986	0.849	1.00 24.66	A_13
MOTA	824	0	ASN	91	71.257	38.479	1.313	1.00 17.43	A_13
MOTA	825	N	TYR	92	69.198	37.632	1.622	1.00 17.69	A_13
ATOM	827			92	69.233	37.876			~_+3
		CA	TYR			3/.8/0	3.061	1.00 10.17	A_13
ATOM	828	CB	TYR	92	67.942	37.428	3.744	1.00 16.78	A_13
MOTA	829	CG	TYR	92	66.786	38.364	3.523	1.00 26.17	A_13
MOTA	830		TYR	92	66.015	38.803	4.581	1.00 17.79	A_13
									W-13
MOTA	831		TYR	92	64.947	39.678	4.380	1.00 29.60	
MOTA	832	CD2		92	66.467	38.818	2.250	1.00 25.90	A_13
MOTA	833		TYR	92	65.406	39.691	2.040	1.00 30.60	A_13
ATOM	834	CZ	TYR	92	64.647	40.117			
							3.107	1.00 12.31	A_13
ATOM	835	OH	TYR	92	63.575	40.967	2.886	1.00 26.07	A_13
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ATOM 837 C TYR 92 70.427 37.245 3.763 1.00 11.94 1.31 ATOM 839 N ALP 92 70.752 37.617 4.882 1.00 17.58 1.13 ATOM 842 CA										
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ATOM 846 CA GLY 94 73.812 36.495 5.328 1.00 12.44 A_13 ATOM 847 C GLY 94 74.827 37.372 5.872 1.00 12.00 A_13 ATOM 848 O GLY 94 74.827 37.372 5.872 1.00 17.29 A_13 ATOM 848 O GLY 94 74.383 38.694 6.456 1.00 17.29 A_13 ATOM 848 O GLY 94 75.582 39.206 5.993 1.00 10.00 A_13 ATOM 848 O GLY 94 75.582 39.206 5.993 1.00 10.00 A_13 ATOM 848 C GA GLY 94 75.582 39.206 5.993 1.00 10.00 A_13 ATOM 851 CA ASP 95 71.223 39.206 5.993 1.00 10.00 A_13 ATOM 852 CB 859 95 71.421 40.904 4.309 1.00 14.54 A_13 ATOM 853 CC ASP 95 71.422 40.904 4.309 1.00 14.54 A_13 ATOM 855 OD2 ASP 95 72.502 40.647 3.753 1.00 11.86 A_13 ATOM 855 C ASP 95 72.502 40.647 3.753 1.00 15.39 A_13 ATOM 856 C ASP 95 72.502 40.657 3.753 1.00 15.89 A_13 ATOM 857 O ASP 95 72.509 40.623 7.994 1.00 22.31 A_13 ATOM 858 N ALA 96 72.609 41.877 10.011 1.00 15.08 A_13 ATOM 856 C ALA 96 77.303 41.711 8.566 1.00 18.45 A_13 ATOM 856 C ALA 96 77.595 42.244 10.527 1.00 15.08 A_13 ATOM 856 C ALA 96 77.595 42.244 10.527 1.00 15.08 A_13 ATOM 856 C ALA 96 77.595 42.244 10.527 1.00 15.00 A_13 ATOM 866 CA ALA 96 77.655 42.244 10.527 1.00 15.00 A_13 ATOM 867 CB HIS 97 69.599 43.620 11.551 1.00 14.01 A_13 ATOM 868 CG HIS 97 69.599 43.620 11.551 1.00 11.35 A_13 ATOM 866 CA HIS 97 66.207 42.786 9.742 1.00 15.00 A_13 ATOM 867 CB HIS 97 66.207 42.786 9.742 1.00 15.00 A_13 ATOM 868 CG HIS 97 66.207 43.083 11.203 1.00 20.32 A_13 ATOM 868 CG HIS 97 66.207 43.083 11.203 1.00 20.32 A_13 ATOM 868 CG HIS 97 66.207 43.083 11.203 1.00 20.32 A_13 ATOM 868 CG HIS 97 66.207 43.083 11.203 1.00 20.03 A_13 ATOM 870 CB HIS 97 66.207 43.083 11.203 1.00 20.03 A_13 ATOM 871 CEI HIS 97 67.108 41.895 7.936 1.00 11.00 A_13 ATOM 872 NEZ HIS 97 66.207 43.083 11.203 1.00 20.03 A_13 ATOM 880 CD PHE 98 72.894 45.524 10.00 15.00 A_13 ATOM 880 CD PHE 98 72.894 45.524 10.00 10.00 A_13 ATOM 880 CD PHE 98 72.894 45.524 10.00 10.00 A_13 ATOM 880 CD PHE 98 72.894 45.524 10.00 10.00 A_13 ATOM 880 CD PHE 98 76.506 43.057 11.908 11.00 10.00 A_13 ATOM 880 CD ASP 99 66.817 47.871 44.681 1.00 1.00 1.00 A_13 ATOM 880 CD ASP 99	MOTA	843	0	GLY	93	73.573	37.656	3.391	1.00 10.13	A_13
ATOM 846 CA GLY 94 74.827 37.372 5.872 1.00 10.00 \$\(\lambda\).13 ATOM 848 0 C GLY 94 75.052 39.271 7.284 1.00 14.53 \$\(\lambda\).13 ATOM 849 N ASP 95 75.022 39.271 7.284 1.00 14.53 \$\(\lambda\).13 ATOM 849 N ASP 95 77.2639 40.485 6.472 1.00 16.35 \$\(\lambda\).13 ATOM 851 CA ASP 95 77.2639 40.485 6.472 1.00 16.35 \$\(\lambda\).13 ATOM 852 CB ASP 95 77.2639 40.485 6.472 1.00 16.35 \$\(\lambda\).13 ATOM 854 CD ASP 95 77.1324 40.904 4.3091 1.00 16.15 \$\(\lambda\).13 ATOM 855 CD ASP 95 77.1446 40.904 4.3091 1.00 16.35 \$\(\lambda\).13 ATOM 855 CD ASP 95 77.1446 40.904 4.3091 1.00 16.35 \$\(\lambda\).13 ATOM 855 CD ASP 95 77.1446 40.904 4.3091 1.00 16.35 \$\(\lambda\).13 ATOM 856 CD ASP 95 77.2548 40.523 7.994 1.00 22.31 \$\(\lambda\).13 ATOM 857 O ASP 95 72.548 40.523 7.994 1.00 22.31 \$\(\lambda\).13 ATOM 858 N ALA 96 72.703 41.711 8.566 1.00 18.45 \$\(\lambda\).13 ATOM 858 N ALA 96 72.703 41.711 8.566 1.00 18.45 \$\(\lambda\).13 ATOM 861 CB ALA 96 73.992 42.244 10.587 1.00 19.20 \$\(\lambda\).13 ATOM 863 O ALA 96 73.992 42.244 10.587 1.00 19.20 \$\(\lambda\).13 ATOM 863 O ALA 96 77.702 44.092 9.876 1.00 19.20 \$\(\lambda\).13 ATOM 866 CB AHLS 97 66.5399 43.620 11.581 1.00 11.01 1.03 ATOM 866 CB HISS 97 66.5399 43.620 11.581 1.00 11.01 1.03 ATOM 866 CB HISS 97 66.5399 43.620 11.581 1.00 11.05 1.34 \$\(\lambda\).13 ATOM 866 CB HISS 97 66.534 40.992 9.876 1.00 10.00 \$\(\lambda\).13 ATOM 866 CB HISS 97 66.124 41.992 9.876 1.00 10.00 \$\(\lambda\).13 ATOM 867 CD HIS 97 66.134 41.1978 9.27 1.00 14.01 1.31 ATOM 868 CB CB HISS 97 66.144 41.1978 9.27 1.00 14.03 \$\(\lambda\).13 ATOM 868 CB CB HISS 97 66.142 42.618 7.552 1.00 17.10 1.31 ATOM 868 CB CB HISS 97 66.142 42.618 7.552 1.00 17.10 1.31 ATOM 868 CB CB HISS 97 67.014 41.1978 9.27 1.00 14.03 \$\(\lambda\).13 ATOM 868 CB CB HISS 97 66.142 42.618 7.552 1.00 17.10 1.31 ATOM 868 CB CB HISS 97 66.142 42.618 7.552 1.00 17.10 1.31 ATOM 869 CD APE 98 69.596 45.237 13.423 1.00 11.07 1.31 ATOM 869 CD APE 98 69.596 45.237 13.423 1.00 11.07 1.31 ATOM 869 CD APE 98 69.596 45.237 13.423 1.00 11.0	ATOM	844	N	GLY	94	73.812	36.495	5.328	1.00 12.44	A_13
ATOM 847 C GLY 94 74.358 38.694 6.456 1.00 17.29	MOTA	846	CA	GLY	94	74.827	37.372	5.872	1.00 10.00	A_13
ATOM 848 0 GLY 94 75.052 39.271 7.284 1.00 14.53	ATOM	847	С	GLY	94	74.358	38.694			A 13
ATOM 849 N ASP 95 73.221 39.206 5.993 1.00 10.00 A_13 ATOM 851 CA ASP 95 77.232 40.777 5.814 1.00 10.00 A_13 ATOM 853 CB ASP 95 71.332 40.777 5.814 1.00 10.00 A_13 ATOM 853 CB ASP 95 71.332 40.777 5.814 1.00 10.00 A_13 ATOM 854 CDI ASP 95 77.421 40.904 4.309 1.00 14.54 A_13 ATOM 855 CDI ASP 95 77.421 40.904 4.309 1.00 14.54 A_13 ATOM 855 CDI ASP 95 77.421 40.904 4.309 1.00 14.54 A_13 ATOM 855 CDI ASP 95 77.426 41.556 3.673 1.00 11.86 A_13 ATOM 857 CD ASP 95 77.526 41.557 7.875 1.00 11.86 A_13 ATOM 858 N ALA 96 72.509 41.877 10.011 1.00 15.08 A_13 ATOM 850 CA ALA 96 72.509 41.877 10.011 1.00 15.08 A_13 ATOM 861 CB ALA 96 73.982 42.244 10.587 1.00 19.20 A_13 ATOM 863 C ALA 96 71.587 42.961 10.345 1.00 14.91 A_13 ATOM 863 C ALA 96 71.587 42.961 10.345 1.00 14.91 A_13 ATOM 864 N HIS 97 70.635 42.646 11.215 1.00 14.01 A_13 ATOM 865 C A HIS 97 66.207 43.083 11.203 1.00 20.32 A_13 ATOM 866 C A HIS 97 66.207 42.786 9.742 1.00 11.35 A_13 ATOM 867 CB HIS 97 66.207 43.083 11.203 1.00 20.32 A_13 ATOM 869 CD HIS 97 66.207 43.083 11.203 1.00 20.32 A_13 ATOM 869 CD HIS 97 66.207 43.083 11.203 1.00 20.32 A_13 ATOM 870 ND HIS 97 67.014 41.978 9.257 1.00 14.01 A_13 ATOM 871 CB HIS 97 67.014 41.978 9.257 1.00 14.01 A_13 ATOM 873 ND HIS 97 67.014 41.978 9.257 1.00 14.03 A_13 ATOM 874 C HIS 97 66.207 42.786 9.742 1.00 15.00 A_13 ATOM 875 ND HIS 97 67.014 41.978 9.257 1.00 14.03 A_13 ATOM 876 C PHE 98 72.138 46.011 1.4703 1.00 20.49 ATOM 881 C C PHE 98 72.138 46.011 1.4703 1.00 11.35 A_13 ATOM 878 C C PHE 98 69.556 43.952 1.00 17.01 1.13 A_13 ATOM 879 C D PHE 98 69.564 45.668 14.823 1.00 11.27 A_13 ATOM 880 C C PHE 98 69.564 43.668 14.823 1.00 11.00 1.00 A_13 ATOM 881 C C PHE 98 72.138 46.011 1.4703 1.00 20.49 ATOM 881 C C PHE 98 72.506 45.853 13.365 1.00 10.00 A_13 ATOM 880 C C PHE 98 72.506 45.853 13.365 1.00 10.00 A_13 ATOM 880 C C PHE 98 72.506 45.853 13.365 1.00 11.00 10.00 A_13 ATOM 880 C C PHE 98 69.564 43.668 14.823 1.00 11.00 10.00 A_13 ATOM 881 C C PHE 98 72.506 45.853 13.365 1.00 11.00 11.17 A_13 ATOM 890 C A ASP 90 66.03		848			94					A 13
ATOM 851 CA ASP 95 72.699 40.485 6.472 1.00 16.35										A 13
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ATOM 874 C HIS 97 68.142 42.618 7.552 1.00 17.10 A.13 ATOM 875 O HIS 97 69.550 43.952 13.078 1.00 13.37 A.13 ATOM 876 N PHE 98 69.550 45.237 13.423 1.00 11.27 A.13 ATOM 878 CA PHE 98 69.554 45.668 14.823 1.00 11.27 A.13 ATOM 879 CB PHE 98 72.138 46.611 14.703 1.00 20.49 A.13 ATOM 880 CG PHE 98 72.138 46.011 14.703 1.00 20.49 A.13 ATOM 881 CD1 PHE 98 72.984 45.524 15.707 1.00 17.49 A.13 ATOM 882 CD2 PHE 98 72.384 45.524 15.707 1.00 13.51 A.13 ATOM 883 CE1 PHE 98 72.984 45.524 15.707 1.00 13.51 A.13 ATOM 883 CE1 PHE 98 74.171 44.888 15.382 1.00 20.00 A.13 ATOM 884 CE2 PHE 98 74.527 44.728 14.029 1.00 10.00 A.13 ATOM 885 CZ PHE 98 74.527 44.728 14.029 1.00 10.00 A.13 ATOM 886 C PHE 98 68.336 46.336 15.245 1.00 25.38 A.13 ATOM 887 O PHE 98 67.817 45.924 16.394 1.00 10.00 A.13 ATOM 888 N ASP 99 66.039 45.604 18.010 1.00 10.00 A.13 ATOM 890 CA ASP 99 66.039 45.604 18.010 1.00 10.00 A.13 ATOM 891 CB ASP 99 66.039 45.604 18.010 1.00 10.00 A.13 ATOM 893 CD ASP 99 66.039 45.604 18.010 1.00 10.00 A.13 ATOM 894 OD2 ASP 99 66.817 47.011 18.001 1.00 17.01 A.13 ATOM 895 C ASP 99 66.817 47.011 18.001 1.00 17.01 A.13 ATOM 896 C ASP 99 66.817 47.011 18.001 1.00 17.01 A.13 ATOM 897 C ASP 99 66.817 47.011 18.001 1.00 17.01 A.13 ATOM 899 CA ASP 100 66.337 50.232 17.177 1.00 18.23 A.13 ATOM 899 CA ASP 100 66.337 50.232 17.177 1.00 18.23 A.13 ATOM 900 CB ASP 100 66.337 50.232 17.177 1.00 18.23 A.13 ATOM 901 CG ASP 100 66.337 50.232 17.177 1.00 18.23 A.13 ATOM 903 OD2 ASP 100 66.6121 51.228 16.041 1.00 17.01 A.13 ATOM 904 C ASP 100 66.6121 51.635 19.009 1.00 17.18 A.13 ATOM 905 C ASP 100 66.6121 51.635 19.009 1.00 17.18 A.13 ATOM 907 C ASP 100 66.623 48.856 16.441 1.00 13.03 A.13 ATOM 908 C ASP 100 66.623 48.856 16.041 1.00 17.02 A.13 ATOM 909 C B ASP 100 66.637 50.622 52.160 15.838 1.00 17.55 A.13 ATOM 909 C B ASP 100 66.637 50.622 52.160 15.838 1.00 17.55 A.13 ATOM 901 C G ASP 100 66.623 48.856 16.001 10.01 13.06 A.13 ATOM 901 C G ASP 100 66.6604 49.922 20.236 1.00 17.59 A.13 ATOM 902 C D ASP 101 64.650 46.460 50.962 19.536 1.00 10.	MOTA	871	CE1	HIS	. 97	67.108	41.895	7.936	1.00 10.00	A_13
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ATOM 876 N PHE 98 69.536 43.055 13.998 1.00 13.48 A.13 ATOM 878 CA PHE 98 69.554 45.237 13.423 1.00 21.01 A.13 ATOM 878 CA PHE 98 69.634 45.668 14.823 1.00 11.27 A.13 ATOM 879 CB PHE 98 70.817 46.615 15.055 1.00 10.00 A.13 ATOM 880 CG PHE 98 72.384 45.524 15.707 1.00 17.49 A.13 ATOM 881 CD1 PHE 98 72.984 45.524 15.707 1.00 17.49 A.13 ATOM 882 CD2 PHE 98 72.984 45.524 15.707 1.00 13.51 A.13 ATOM 883 CE1 PHE 98 72.984 45.524 15.707 1.00 13.51 A.13 ATOM 883 CE1 PHE 98 74.171 44.888 15.382 1.00 20.00 A.13 ATOM 884 CE2 PHE 98 73.693 45.215 13.024 1.00 10.00 A.13 ATOM 885 CZ PHE 98 74.527 44.728 14.029 1.00 10.00 A.13 ATOM 886 C PHE 98 67.815 47.218 14.029 1.00 10.00 A.13 ATOM 887 O PHE 98 67.815 47.218 14.552 1.00 25.38 A.13 ATOM 888 N ASP 99 67.815 47.218 14.552 1.00 10.00 A.13 ATOM 880 CA ASP 99 66.557 46.476 16.866 1.00 10.00 A.13 ATOM 891 CB ASP 99 66.657 46.476 16.866 1.00 10.00 A.13 ATOM 892 CG ASP 99 66.639 45.604 18.010 1.00 10.00 A.13 ATOM 893 OD1 ASP 99 66.637 45.998 18.473 1.00 14.00 A.13 ATOM 894 OD2 ASP 99 66.237 47.871 17.391 1.00 13.06 A.13 ATOM 895 C ASP 99 66.237 47.871 17.391 1.00 13.06 A.13 ATOM 896 O ASP 99 66.237 48.856 16.746 10.015.56 A.13 ATOM 897 O ASP 100 66.237 48.856 16.746 10.015.56 A.13 ATOM 899 CA ASP 100 66.237 48.856 16.746 1.00 15.55 A.13 ATOM 900 CB ASP 100 66.237 50.232 17.177 1.00 13.26 ATOM 901 CG ASP 100 66.237 50.232 17.177 1.00 13.26 ATOM 903 OD2 ASP 100 66.397 50.232 17.177 1.00 13.26 ATOM 904 C ASP 100 66.397 50.232 17.177 1.00 13.23 A.13 ATOM 905 C ASP 100 66.235 49.669 18.895 1.00 17.72 A.13 ATOM 906 C ASP 100 66.237 49.051 15.245 1.00 10.03 A.13 ATOM 907 CG ASP 100 66.237 49.051 15.238 1.00 10.07 A.13 ATOM 908 CA ASP 100 66.237 49.051 15.238 1.00 10.07 A.13 ATOM 909 CB ASP 100 66.237 49.051 15.238 1.00 10.07 A.13 ATOM 901 CG ASP 100 66.237 49.051 15.238 1.00 10.07 A.13 ATOM 901 CG ASP 100 66.237 49.051 15.238 1.00 10.03 A.13 ATOM 902 CD ASP 100 66.600 49.972 22.456 1.00 10.00 A.13 ATOM 903 CD ASP 101 64.650 49.972 22.456 1.00 10.00 A.13 ATOM 903 CD ASP 101 64.660 49.972	MOTA	874	С	HIS	97	69.650	43.952	13.078	1.00 13.37	A 13
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ATOM 896 O ASP 99 67.528 48.056 18.374 1.00 10.00 A.13 ATOM 899 CA ASP 100 66.203 48.856 16.746 1.00 15.56 A.13 ATOM 990 CB ASP 100 66.397 50.232 17.177 1.00 18.23 A.13 ATOM 901 CG ASP 100 66.121 51.228 16.041 1.00 15.05 A.13 ATOM 901 CG ASP 100 67.275 52.180 15.838 1.00 11.67 A.13 ATOM 902 OD1 ASP 100 67.602 52.516 14.683 1.00 21.07 A.13 ATOM 903 OD2 ASP 100 67.602 52.516 14.683 1.00 14.72 A.13 ATOM 904 C ASP 100 65.610 50.572 18.445 1.00 10.00 A.13 ATOM 905 O ASP 100 65.767 51.635 19.009 1.00 17.18 A.13 ATOM 906 N ASP 101 64.755 49.669 18.895 1.00 14.57 A.13 ATOM 908 CA ASP 101 64.755 49.669 18.895 1.00 17.59 A.13 ATOM 909 CB ASP 101 64.031 49.924 20.123 1.00 17.59 A.13 ATOM 909 CB ASP 101 66.532 49.721 19.606 1.00 17.12 A.13 ATOM 910 CG ASP 101 66.599 49.023 19.179 1.00 10.39 A.13 ATOM 911 OD1 ASP 101 66.599 49.023 19.179 1.00 10.39 A.13 ATOM 912 OD2 ASP 101 66.494 49.766 21.306 1.00 19.33 A.13 ATOM 913 C ASP 101 64.610 49.972 22.456 1.00 10.00 A.13 ATOM 915 N GLU 102 66.213 49.301 21.019 1.00 16.15 A.13 ATOM 915 C G GLU 102 66.213 49.301 21.019 1.00 16.15 A.13 ATOM 918 CB GLU 102 66.621 49.301 21.019 1.00 16.15 A.13 ATOM 919 CG GLU 102 66.650 46.467 22.672 1.00 11.18 A.13 ATOM 919 CG GLU 102 66.650 46.764 22.672 1.00 11.18 A.13 ATOM 920 CD GLU 102 66.650 46.764 22.672 1.00 11.18 A.13 ATOM 921 OE1 GLU 102 66.657 46.704 21.636 1.00 10.00 A.13 ATOM 922 OE2 GLU 102 66.657 46.704 21.636 1.00 10.00 A.13 ATOM 922 OE2 GLU 102 66.572 46.704 21.636 1.00 10.00 A.13 ATOM 922 OE2 GLU 102 66.572 46.704 21.636 1.00 10.00 A.13 ATOM 922 OE2 GLU 102 66.572 46.704 21.636 1.00 10.00 A.13 ATOM 922 OE2 GLU 102 66.572 46.704 21.636 1.00 10.00 A.13 ATOM 922 OE2 GLU 102 66.572 46.704 22.672 1.00 11.107 A.13		895	С	ASP		66.817	47.871	17.391	1.00 13.06	A_13
ATOM 899 CA ASP 100 66.203 48.856 16.746 1.00 15.56 A_13 ATOM 900 CB ASP 100 66.397 50.232 17.177 1.00 18.23 A_13 ATOM 901 CG ASP 100 66.121 51.228 16.041 1.00 15.05 A_13 ATOM 901 CG ASP 100 67.275 52.180 15.838 1.00 11.67 A_13 ATOM 902 OD1 ASP 100 67.602 52.516 14.683 1.00 21.07 A_13 ATOM 903 OD2 ASP 100 67.879 52.569 16.860 1.00 14.72 A_13 ATOM 904 C ASP 100 65.610 50.572 18.445 1.00 10.00 A_13 ATOM 905 O ASP 100 65.610 50.572 18.445 1.00 10.00 A_13 ATOM 906 N ASP 101 64.755 49.669 18.895 1.00 17.18 A_13 ATOM 908 CA ASP 101 64.031 49.924 20.123 1.00 17.59 A_13 ATOM 909 CB ASP 101 62.769 49.051 20.236 1.00 12.50 A_13 ATOM 910 CG ASP 101 60.599 49.051 20.236 1.00 17.12 A_13 ATOM 911 OD1 ASP 101 60.599 49.023 19.179 1.00 10.39 A_13 ATOM 912 OD2 ASP 101 61.480 50.962 19.536 1.00 18.09 A_13 ATOM 913 C ASP 101 64.610 49.972 22.456 1.00 10.00 A_13 ATOM 915 N GLU 102 66.213 49.301 21.019 1.00 16.15 A_13 ATOM 915 CA GLU 102 66.213 49.301 21.019 1.00 16.15 A_13 ATOM 917 CA GLU 102 66.213 49.301 21.019 1.00 16.15 A_13 ATOM 919 CG GLU 102 66.226 48.085 21.720 1.00 18.25 A_13 ATOM 919 CG GLU 102 66.650 46.467 22.672 1.00 11.18 A_13 ATOM 919 CG GLU 102 66.650 46.467 22.672 1.00 11.18 A_13 ATOM 920 CD GLU 102 66.572 46.704 21.636 1.00 10.00 A_13 ATOM 921 OE1 GLU 102 66.572 46.704 21.636 1.00 10.00 A_13 ATOM 921 OE1 GLU 102 66.572 46.746 23.870 1.00 16.09 A_13 ATOM 922 OE2 GLU 102 66.572 46.746 23.870 1.00 16.09 A_13 ATOM 922 OE2 GLU 102 66.572 46.746 23.870 1.00 16.09 A_13 ATOM 922 OE2 GLU 102 65.572 46.746 23.870 1.00 16.09 A_13 ATOM 922 OE2 GLU 102 66.572 46.746 23.870 1.00 16.09 A_13 ATOM 922 OE2 GLU 102 65.572 46.746 23.870 1.00 16.09 A_13 ATOM 923 C GLU 102 66.572 46.746 23.870 1.00 16.09 A_13 ATOM 923 C GLU 102 66.572 46.746 23.870 1.00 16.09 A_13 ATOM 923 C GLU 102 66.572 46.746 23.870 1.00 16.00 A_13	ATOM	896	0	ASP	99	67.528	48.056	18.374	1.00 10.00	A_13
ATOM 899 CA ASP 100 66.397 50.232 17.177 1.00 18.23 A_13 ATOM 900 CB ASP 100 66.121 51.228 16.041 1.00 15.05 A_13 ATOM 901 CG ASP 100 67.275 52.180 15.838 1.00 11.67 A_13 ATOM 902 OD1 ASP 100 67.602 52.516 14.683 1.00 21.07 A_13 ATOM 903 OD2 ASP 100 67.879 52.569 16.860 1.00 14.72 A_13 ATOM 904 C ASP 100 65.610 50.572 18.445 1.00 10.00 A_13 ATOM 905 O ASP 100 65.767 51.635 19.009 1.00 17.18 A_13 ATOM 906 N ASP 101 64.755 49.669 18.895 1.00 14.57 A_13 ATOM 908 CA ASP 101 64.031 49.924 20.123 1.00 17.59 A_13 ATOM 909 CB ASP 101 62.769 49.051 20.236 1.00 12.50 A_13 ATOM 910 CG ASP 101 61.532 49.721 19.606 1.00 12.50 A_13 ATOM 911 OD1 ASP 101 60.599 49.023 19.179 1.00 10.39 A_13 ATOM 912 OD2 ASP 101 66.480 50.962 19.536 1.00 18.09 A_13 ATOM 913 C ASP 101 64.944 49.766 21.306 1.00 19.33 A_13 ATOM 914 O ASP 101 64.610 49.972 22.456 1.00 10.00 A_13 ATOM 915 N GLU 102 66.213 49.301 21.019 1.00 16.15 A_13 ATOM 918 CB GLU 102 66.213 49.301 21.019 1.00 16.15 A_13 ATOM 918 CB GLU 102 67.267 49.194 22.044 1.00 13.43 A_13 ATOM 918 CB GLU 102 67.267 49.194 22.044 1.00 13.43 A_13 ATOM 919 CG GLU 102 67.267 49.194 22.044 1.00 13.43 A_13 ATOM 919 CG GLU 102 66.650 46.467 22.672 1.00 11.18 A_13 ATOM 920 CD GLU 102 66.650 46.4670 22.672 1.00 11.18 A_13 ATOM 921 OE1 GLU 102 66.650 46.4670 22.672 1.00 11.18 A_13 ATOM 921 OE1 GLU 102 66.872 46.704 21.636 1.00 10.00 A_13 ATOM 921 OE1 GLU 102 66.872 46.704 21.636 1.00 10.00 A_13 ATOM 922 OE2 GLU 102 66.872 46.704 21.636 1.00 10.00 A_13 ATOM 921 OE1 GLU 102 66.872 46.704 21.636 1.00 11.07 A_13		897	N	ASP	100		48.856	16.746	1.00 15.56	A_13
ATOM 900 CB ASP 100 66.121 51.228 16.041 1.00 15.05 A_13 ATOM 901 CG ASP 100 67.275 52.180 15.838 1.00 11.67 A_13 ATOM 902 OD1 ASP 100 67.602 52.516 14.683 1.00 21.07 A_13 ATOM 903 OD2 ASP 100 67.879 52.569 16.860 1.00 14.72 A_13 ATOM 904 C ASP 100 65.610 50.572 18.445 1.00 10.00 A_13 ATOM 905 O ASP 100 65.610 50.572 18.445 1.00 10.00 A_13 ATOM 906 N ASP 101 64.755 49.669 18.895 1.00 14.57 A_13 ATOM 908 CA ASP 101 64.031 49.924 20.123 1.00 17.59 A_13 ATOM 909 CB ASP 101 62.769 49.051 20.236 1.00 12.50 A_13 ATOM 910 CG ASP 101 61.532 49.721 19.606 1.00 17.12 A_13 ATOM 911 OD1 ASP 101 61.532 49.721 19.606 1.00 17.12 A_13 ATOM 912 OD2 ASP 101 60.599 49.023 19.179 1.00 10.39 A_13 ATOM 913 C ASP 101 64.944 49.766 21.306 1.00 18.09 A_13 ATOM 913 C ASP 101 64.94 49.766 21.306 1.00 19.33 A_13 ATOM 914 O ASP 101 64.94 49.766 21.306 1.00 19.33 A_13 ATOM 915 N GLU 102 66.213 49.301 21.019 1.00 16.15 A_13 ATOM 915 N GLU 102 66.213 49.301 21.019 1.00 16.15 A_13 ATOM 915 CG GLU 102 67.267 49.194 22.044 1.00 13.43 A_13 ATOM 915 CB GLU 102 67.267 49.194 22.044 1.00 13.43 A_13 ATOM 915 CG GLU 102 67.697 46.704 21.636 1.00 10.00 A_13 ATOM 915 CG GLU 102 67.697 46.704 21.636 1.00 10.00 A_13 ATOM 919 CG GLU 102 66.650 46.467 22.672 1.00 11.18 A_13 ATOM 920 CD GLU 102 66.650 46.467 22.672 1.00 11.18 A_13 ATOM 921 OEI GLU 102 66.872 46.704 21.636 1.00 10.00 A_13 ATOM 921 OEI GLU 102 66.872 46.704 22.672 1.00 11.18 A_13 ATOM 921 OEI GLU 102 66.872 46.704 23.870 1.00 16.09 A_13 ATOM 921 OEI GLU 102 66.872 46.704 23.870 1.00 16.09 A_13 ATOM 921 OEI GLU 102 66.872 46.704 23.870 1.00 16.09 A_13 ATOM 922 OE2 GLU 102 65.572 46.033 22.271 1.00 26.76 A_13 ATOM 922 OE2 GLU 102 65.572 46.033 22.271 1.00 26.76 A_13 ATOM 923 C GLU 102 65.572 46.033 22.271 1.00 26.76 A_13 ATOM 923 C GLU 102 65.572 46.033 22.271 1.00 26.76 A_13 ATOM 923 C GLU 102 65.572 46.033 22.271 1.00 26.76 A_13 ATOM 923 C GLU 102 65.572 46.033 22.271 1.00 26.76 A_13	ATOM	899	CA	ASP	100	66.397	50.232	17.177	1.00 18.23	A_13
ATOM 901 CG ASP 100 67.275 52.180 15.838 1.00 11.67 A_13 ATOM 902 OD1 ASP 100 67.602 52.516 14.683 1.00 21.07 A_13 ATOM 903 OD2 ASP 100 67.879 52.569 16.860 1.00 14.72 A_13 ATOM 904 C ASP 100 65.610 50.572 18.445 1.00 10.00 A_13 ATOM 905 O ASP 100 65.610 50.572 18.445 1.00 10.00 A_13 ATOM 906 N ASP 101 64.755 49.669 18.895 1.00 14.57 A_13 ATOM 908 CA ASP 101 64.755 49.669 18.895 1.00 14.57 A_13 ATOM 909 CB ASP 101 64.031 49.924 20.123 1.00 17.59 A_13 ATOM 909 CG ASP 101 62.769 49.051 20.236 1.00 12.50 A_13 ATOM 910 CG ASP 101 61.532 49.721 19.606 1.00 17.12 A_13 ATOM 911 OD1 ASP 101 60.599 49.023 19.179 1.00 10.39 A_13 ATOM 912 OD2 ASP 101 61.480 50.962 19.536 1.00 18.09 A_13 ATOM 913 C ASP 101 64.994 49.766 21.306 1.00 19.33 A_13 ATOM 914 O ASP 101 64.610 49.972 22.456 1.00 10.00 A_13 ATOM 915 N GLU 102 66.213 49.301 21.019 1.00 16.15 A_13 ATOM 917 CA GLU 102 66.213 49.301 21.019 1.00 16.15 A_13 ATOM 918 CB GLU 102 67.267 49.194 22.044 1.00 13.43 A_13 ATOM 918 CB GLU 102 68.264 48.085 21.720 1.00 18.25 A_13 ATOM 919 CG GLU 102 66.650 46.467 22.672 1.00 11.18 A_13 ATOM 920 CD GLU 102 66.650 46.467 22.672 1.00 11.18 A_13 ATOM 920 CD GLU 102 66.650 46.467 22.672 1.00 11.18 A_13 ATOM 921 OE1 GLU 102 66.872 46.746 23.870 1.00 16.09 A_13 ATOM 920 CD GLU 102 66.872 46.746 23.870 1.00 16.09 A_13 ATOM 921 OE1 GLU 102 66.872 46.746 23.870 1.00 16.09 A_13 ATOM 921 OE1 GLU 102 66.872 46.746 23.870 1.00 16.09 A_13 ATOM 920 CD GLU 102 66.872 46.746 23.870 1.00 16.09 A_13 ATOM 921 OE1 GLU 102 66.872 46.746 23.870 1.00 16.09 A_13 ATOM 922 OE2 GLU 102 66.872 46.746 23.870 1.00 16.09 A_13 ATOM 922 OE2 GLU 102 66.872 46.746 23.870 1.00 16.09 A_13 ATOM 922 OE2 GLU 102 66.872 46.746 23.870 1.00 16.09 A_13 ATOM 923 C GLU 102 66.872 46.746 23.870 1.00 16.09 A_13 ATOM 923 C GLU 102 66.870 50.495 22.007 1.00 11.07 A_13	MOTA	900	CB	ASP	100	66.121	51.228	16.041	1.00 15.05	A_13
ATOM 902 OD1 ASP 100 67.602 52.516 14.683 1.00 21.07 A_13 ATOM 903 OD2 ASP 100 67.879 52.569 16.860 1.00 14.72 A_13 ATOM 904 C ASP 100 65.610 50.572 18.445 1.00 10.00 A_13 ATOM 905 O ASP 100 65.610 50.572 18.445 1.00 10.00 A_13 ATOM 906 N ASP 101 64.755 49.669 18.895 1.00 14.57 A_13 ATOM 908 CA ASP 101 64.031 49.924 20.123 1.00 17.59 A_13 ATOM 909 CB ASP 101 62.769 49.051 20.236 1.00 12.50 A_13 ATOM 910 CG ASP 101 61.532 49.721 19.606 1.00 17.12 A_13 ATOM 911 OD1 ASP 101 60.599 49.023 19.179 1.00 10.39 A_13 ATOM 912 OD2 ASP 101 61.480 50.962 19.536 1.00 18.09 A_13 ATOM 913 C ASP 101 64.944 49.766 21.306 1.00 19.33 A_13 ATOM 914 O ASP 101 64.610 49.972 22.456 1.00 10.00 A_13 ATOM 915 N GLU 102 66.213 49.301 21.019 1.00 16.15 A_13 ATOM 917 CA GLU 102 66.213 49.301 21.019 1.00 16.15 A_13 ATOM 918 CB GLU 102 67.267 49.194 22.044 1.00 13.43 A_13 ATOM 919 CG GLU 102 67.267 49.194 22.044 1.00 13.43 A_13 ATOM 919 CG GLU 102 67.697 46.704 21.636 1.00 10.00 A_13 ATOM 920 CD GLU 102 66.826 48.085 21.720 1.00 18.25 A_13 ATOM 921 OE1 GLU 102 66.872 46.704 21.636 1.00 10.00 A_13 ATOM 920 CD GLU 102 66.872 46.704 22.672 1.00 11.18 A_13 ATOM 921 OE1 GLU 102 66.872 46.704 23.870 1.00 16.09 A_13 ATOM 921 OE1 GLU 102 66.872 46.704 23.870 1.00 16.09 A_13 ATOM 921 OE1 GLU 102 66.872 46.704 23.870 1.00 16.09 A_13 ATOM 922 OE2 GLU 102 65.572 46.033 22.271 1.00 26.76 A_13 ATOM 923 C GLU 102 65.572 46.033 22.271 1.00 26.76 A_13 ATOM 923 C GLU 102 65.572 46.033 22.271 1.00 26.76 A_13 ATOM 923 C GLU 102 65.572 46.033 22.271 1.00 26.76 A_13	ATOM	901	CG	ASP	100			15.838		
ATOM 903 OD2 ASP 100 67.879 52.569 16.860 1.00 14.72 A_13 ATOM 904 C ASP 100 65.610 50.572 18.445 1.00 10.00 A_13 ATOM 905 O ASP 101 64.755 49.669 18.895 1.00 14.57 A_13 ATOM 908 CA ASP 101 64.031 49.924 20.123 1.00 17.59 A_13 ATOM 909 CB ASP 101 62.769 49.051 20.236 1.00 12.50 A_13 ATOM 910 CG ASP 101 61.532 49.721 19.606 1.00 17.12 A_13 ATOM 911 OD1 ASP 101 60.599 49.023 19.179 1.00 10.39 A_13 ATOM 912 OD2 ASP 101 61.480 50.962 19.536 1.00 18.09 A_13 ATOM 913 C ASP 101 64.944 49.766 21.306 1.00 18.09 A_13 ATOM 914 O ASP 101 64.610 49.766 21.306 1.00 19.33 A_13 ATOM 915 N GLU 102 66.213 49.301 21.019 1.00 16.15 A_13 ATOM 915 N GLU 102 66.213 49.301 21.019 1.00 16.15 A_13 ATOM 918 CB GLU 102 67.267 49.194 22.044 1.00 13.43 A_13 ATOM 918 CB GLU 102 67.267 49.194 22.044 1.00 13.43 A_13 ATOM 918 CB GLU 102 68.264 48.085 21.720 1.00 18.25 A_13 ATOM 920 CD GLU 102 66.872 46.704 21.636 1.00 10.00 A_13 ATOM 920 CD GLU 102 66.872 46.704 21.636 1.00 10.00 A_13 ATOM 920 CD GLU 102 66.872 46.704 21.636 1.00 10.00 A_13 ATOM 920 CD GLU 102 66.872 46.704 21.636 1.00 10.00 A_13 ATOM 921 OE1 GLU 102 66.872 46.704 22.672 1.00 11.18 A_13 ATOM 920 CD GLU 102 66.872 46.704 22.672 1.00 11.18 A_13 ATOM 921 OE1 GLU 102 66.872 46.704 23.870 1.00 16.09 A_13 ATOM 921 OE1 GLU 102 66.872 46.704 23.870 1.00 16.09 A_13 ATOM 922 OE2 GLU 102 65.572 46.033 22.271 1.00 26.76 A_13 ATOM 923 C GLU 102 65.572 46.033 22.271 1.00 26.76 A_13 ATOM 923 C GLU 102 65.572 46.033 22.271 1.00 26.76 A_13 ATOM 923 C GLU 102 65.572 46.033 22.271 1.00 26.76 A_13 ATOM 923 C GLU 102 66.870 50.495 22.007 1.00 11.07 A_13	MOTA	902	ODI	ASP	100	67.602		14.683		A 13
ATOM 904 C ASP 100 65.610 50.572 18.445 1.00 10.00 A_13 ATOM 905 O ASP 100 65.767 51.635 19.009 1.00 17.18 A_13 ATOM 906 N ASP 101 64.755 49.669 18.895 1.00 14.57 A_13 ATOM 908 CA ASP 101 64.031 49.924 20.123 1.00 17.59 A_13 ATOM 909 CB ASP 101 62.769 49.051 20.236 1.00 12.50 A_13 ATOM 910 CG ASP 101 61.532 49.721 19.606 1.00 17.12 A_13 ATOM 911 OD1 ASP 101 60.599 49.023 19.179 1.00 10.39 A_13 ATOM 912 OD2 ASP 101 61.480 50.962 19.536 1.00 18.09 A_13 ATOM 913 C ASP 101 64.994 49.766 21.306 1.00 19.33 A_13 ATOM 914 O ASP 101 64.994 49.766 21.306 1.00 19.33 A_13 ATOM 915 N GLU 102 66.213 49.301 21.019 1.00 16.15 A_13 ATOM 917 CA GLU 102 66.213 49.301 21.019 1.00 16.15 A_13 ATOM 918 CB GLU 102 67.267 49.194 22.044 1.00 13.43 A_13 ATOM 919 CG GLU 102 67.697 46.704 21.636 1.00 10.00 A_13 ATOM 919 CG GLU 102 66.872 46.704 21.636 1.00 10.00 A_13 ATOM 920 CD GLU 102 66.872 46.704 21.636 1.00 10.00 A_13 ATOM 921 OE1 GLU 102 66.872 46.704 22.672 1.00 11.18 A_13 ATOM 921 OE1 GLU 102 66.872 46.704 22.677 1.00 11.18 A_13 ATOM 922 OE2 GLU 102 65.572 46.033 22.271 1.00 26.76 A_13 ATOM 923 C GLU 102 65.572 46.033 22.271 1.00 26.76 A_13 ATOM 923 C GLU 102 68.070 50:495 22.007 1.00 11.07 A_13	ATOM	903	OD2	ASP	100					A 13
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ATOM 923 C GLU 102 68.070 50.495 22.007 1.00 11.07 A_13			OE2					22.271	1.00 26.76	A_13
			С				50:495	22.007		A_13
	MOTA	924	0	GLU	102	68.103			1.00 13.97	A_13

MOTA	925	N .	THR	103	68.774	50.823	23.091	1 00 22 02	. 13
ATOM	927	CA	THR	103	69.606	52.034	23.102	1.00 22.82 1.00 13.45	A_13
ATOM	928	CB	THR	103	69.571	52.793	24.459	1.00 13.45	A_13 A_13
ATOM	929	OG1	THR	103	68.236	53.228	24.745	1.00 20.78	A_13 A_13
ATOM	931	CG2	THR	103	70.445	54.046	24.378	1.00 10.09	A_13
ATOM	932	c	THR	103	71.030	51.571	22.822	1.00 12.42	A_13
ATOM	933	ō	THR	103	71.639	50.896	23.642	1.00 19.81	A_13
ATOM	934	N	TRP	104	71.525	51.854	21.626	1.00 10.00	A_13
ATOM	936		TRP	104	72.873	51.448	21.248	1.00 13.61	A_13
ATOM	937	CB	TRP	104	72.943	51.221	19.739	1.00 29.21	A_13
ATOM	938	CG	TRP	104	71.970	50.174	19.313	1.00 21.39	A_13 A_13
ATOM	939	CD2		104	72.101	48.760	19.501	1.00 25.13	A_13
ATOM	940	CE2		104	70.937	48.156	18.964	1.00 28.84	A_13
ATOM	941	CE3		104	73.088	47.941	20.070	1.00 13.36	A_13
ATOM	942		TRP	104	70.765	50.372	18.694	1.00 21.59	A_13
ATOM	943		TRP	104	70.139	49.163	18.484	1.00 19.91	A_13
ATOM	945		TRP	104	70.738	46.768	18.977	1.00 10.00	A_13
ATOM	946	CZ3	TRP	104	72.888	46.568	20.084	1.00 14.54	A_13
ATOM	947	CH2	TRP	104	71.720	45.995	19.539	1.00 11.93	A_13
ATOM	948	C	TRP	104	73.912	52.453	21.725	1.00 16.59	A_13
ATOM	949	ō.	TRP	104	73.707	53.671	21.642	1.00 12.90	A_13
ATOM	950	N	THR	105	75.013	51.949	22.268	1.00 20.85	A_13
ATOM	952	CA	THR	105	76.040	52.831	22.794	1.00 12.38	A_13
ATOM	953	CB	THR	105	75.974	52.890	24.322	1.00 14.39	A_13
ATOM	. 954	OG1	THR	105	76.345	51.609	24.849	1.00 16.42	A_13
ATOM	956	CG2	THR	105	74.575	53.273	24.797	1.00 12.17	A_13
ATOM	957 [,]	Ċ	THR	105	77.437	52.378	22.457	1.00 10.00	A_13
ATOM	958	0	THR	105	77.644	51.261	22.012	1.00 18.98	A_13
MOTA	959	N	SER	106	78.385	53.277		1.00 26.01	A_13
MOTA	961	CA	SER	106	79.809	53.043	22.502	1.00 17.80	A_13
ATOM	962	CB	SER	106	80.466	54.284	21.888	1.00 20.63	A_13
ATOM	963	OG	SER	106	79.744	54.756	20.763	1.00 38.89	A_13
MOTA	965	С	SER	106	80.435	52.779	23.880	1.00 34.75	A_13
MOTA	966	0	SER	106	81.652	52.884	24.042	1.00 33.01	A_13
MOTA	967	N	SER	107	79.590	52.494	24.875	1.00 25.87	A_13
MOTA	969	CA	SER	107	80.032	52.221	26.240	1.00 19.68	A_13
MOTA	970	CB	SER	107	80.082	53.510	27.061	1.00 23.47	A_13
MOTA	971	OG	SER	107	78.819	54.158	27.096	1.00 33.70	A_13
MOTA	973	C	SER	107	79.100	51.200	26.892	1.00 13.60	A_13
MOTA	974	0	SER	107	78.460	50.418	26.193	1.00 16.40	A_13
MOTA	975	N	SER	108	79.028	51.205	28.221	1.00 17.31	A_13
MOTA	977	CA	SER	108	78.188	50.259	28.949	1.00 20.12	A_13
ATOM	978	CB	SER	108	78.745	50.009	30.364	1.00 22.63	A_13
MOTA	979	OG	SER	108	78.444	51.061	31.271	1.00 27.69	A_13
MOTA	981	C	SER	108	76.702	50.606	29.076	1.00 19.98	A_13
ATOM	982	0	SER	108	75.921	49.785	29.562	1.00 35.96	A_13
MOTA	983	N	LYS	109	76.311	51.820	28.713	1.00 16.24	- A_13
ATOM	985	CA	LYS	109	74.907	52.186	28.847	1.00 11.10	A_13
MOTA	986	CB	LYS	109	74.740	53.688	28.690	1.00 12.41	A_13
MOTA	987	CG	LYS	109	73.555	54.239	29.462	1.00 32.67	A_13
MOTA	988		LYS	109	73.353	55.732	29.258	1.00 25.94	A_13
ATOM	989	CE	LYS	109	74.535	56.599	29.749	1.00 25.11	A_13
ATOM	990 994	NZ	LYS	109	74.225		29.636	1.00 22.70	A_13
MOTA MOTA	995	C	LYS	109		51.424	27.773	1.00 21.67	A_13
ATOM	996	0	LYS	109	74.667	51.210	26.694	1.00 32.76	A_13
ATOM	998	N CA	GLY GLY	110 110	72.932	50.955	28.081	1.00 29.60	A_13
ATOM	999		GLY	110	72.156	50.206	27.096	1.00 10.31	A_13
MOTA	1000	C	GLY	110	72.965	49.043	26.542	1.00 20.08	A_13
ATOM	1001				73.672	48.362	27.285	1.00 11.17	A_13
ATOM	1003	N CA	TYR TYR	111 111	72.924 73.665	48.859	25.227	1.00 12.05	A_13
ATOM	1004	CB	TYR	111		47.791	24.583	1.00 13.45	A_13
MOTA	1005		TYR	111	72.713	46.871	23.806	1.00 21.16	A_13
ATOM	1005	CG			71.776	46.101	24.716	1.00 12.28	A_13
ATOM	1007		TYR TYR	111	70.455	46.510	24.906	1.00 14.85	A_13
ATOM	1007			111	69.618	45.837	25.795	1.00 19.08	A_13
MOTA	1009		TYR	. 111	72.232	44.995	25.435	1.00 21.86	A_13
MOTA	1010	CZ	TYR TYR	111 111	71.405	44.314	26.324	1.00 10.00	A_13
ATOM	1011	OH	TYR	111	70.101 69.282	44.740	26.505	1.00 18.51	A_13
MOTA	1013	C	TYR	111	74.779	44.077	27.398	1.00 14.32	.A_13
MOTA	1014	Ö	TYR	111	74.779	48.335	23.695	1.00 16.73	A_13 A_13
ATOM	1015	N	ASN	112	76.008	49.105 47.930	22.764	1.00 11.98	A_13 A_13
ATOM	1017	CA	ASN	112	77.184	48.357	23.999	1.00 11.80	W_13
ATOM	1018	CB	ASN	112	78.453		23.240	1.00 16.37	A_13 A_13
ATOM	1019	CG	ASN	112	79.701	47.867 48.460	23.927 23.324	1.00 27.52 1.00 20.16	A_13 A_13
ATOM	1020		ASN	112	80.327	47.861		1.00 20.16	A_13
ATOM	1021		ASN	112	80.082	49.640	22.447 23.801	1.00 20.99	A_13 A_13
			,		-3.502	42.040	23.001	1.00 13.12	w_r2

ATOM	1024	C	ASN	112	77.137	47.809	21.813	1.00 18.08	A_13
ATOM	1025	0	ASN	112	77.288	46.606	21.592	1.00 12.69	A_13
ATOM	1026	N	LEU	113	76.972	48.700	20.844	1.00 11.15	A_13
ATOM	1028	CA	LEU	113	76.878	48.296	19.461	1.00 10.00	
ATOM	1029	СВ	LEU	113	76.718	49.526	18.568		A_13
ATOM	1030	CG	LEU	113				1.00 10.24	A_13
					76.325	49.262	17.106	1.00 15.67	A_13
ATOM	1031		LEU	113	75.155	48.296	17.050	1.00 26.54	A_13
MOTA	1032		LEU	113	75.967	50.555	16.415	1.00 15.60	A_13
MOTA	1033	С	LEU	113	78.037	47.403	18.986	1.00 25.17	A_13
MOTA	1034	0	LEU	113	77.799	46.380	18.336	1.00 17.24	A_13
ATOM	1035	N	PHE	114	79.274	47.759	19.327	1.00 28.89	A_13
MOTA	1037	CA	PHE	114	20 440	46.974	18.910	1.00 19.15	
ATOM	1038	СВ	PHE	114	81.753				A_13
						47.579	19.434	1.00 14.60	A_13
ATOM	1039	CG	PHE	114	82.923	46.627	19.374	1.00 18.53	A_13
MOTA	1040		PHE	114	83.419	46.175	18.144	1.00 26.13	A_13
MOTA	1041		PHE	114	83.514	46.162	20.547	1.00 17.22	A_13
MOTA	1042		PHE	114	84.475	45.271	18.086	1.00 10.43	A_13
ATOM	1043	CE2	PHE	114	84.571	45.259	20.502	1.00 16.51	A_13
ATOM	1044	CZ	PHE	114	85.052	44.815	19.260	1.00 15.54	A_13
ATOM	1045	С	PHE	114	80.359	45.508	19.306	1.00 10.00	A_13
MOTA	1046	Ó	PHE	114	80.437	44.625	18.445	1.00 33.07	A_13
ATOM	1047	N	LEU	115	80.206	45.249	20.600	1.00 12.18	
ATOM	1049	CA	LEU	115	80.113				A_13
ATOM	1050	CB	LEU			43.877	21.103	1.00 10.59	A_13
				115	79.874	43.895	22.616	1.00 14.14	À_13
ATOM	1051	CG	LEU	115	81.082	43.937	23.578	1.00 34.39	A_13
MOTA	1052		LEU	115	82.337	44.354	22.863	1.00 14.93	A_13
ATOM	1053	ÇD2	LEU	115	80.815	44.836	24.793	1.00 13.42	A_13
MOTA	1054	С	LEU	115	79.019	43.080	20.379	1.00 12.06	A_13
MOTA	1055	0	LEU	115	79.298	42.109	19.675	1.00 13.35	A_13
MOTA	1056	N	VAL	116	77.786	43.558	20.459	1.00 13.11	A_13
ATOM	1058	CA	VAL	116	76.678	42.875	19.814	1.00 12.97	A_13
ATOM	1059	CB	VAL	116	75.343	43.569	20.129		
ATOM	1060		VAL					1.00 28.07	A_13
MOTA				116	74.200	42.926	19.340	1.00 17.32	A_13
	1061		VAL	116	75.074	43.491	21.617	1.00 22.14	A_13
ATOM	1062	C	VAL	116	76.862	42.724	18.313	1.00 10.00	A_13
MOTA	1063	Ο.	VAL	116	76.473	41.716	17.755	1.00 14.68	A_13
MOTA	1064	N	ALA	117	77.481	43.706	17.667	1.00 10.80	A_13
ATOM	1066	CA	ALA	117	77.726	43.662	16.224	1.00 18.28	A_13
ATOM	1067	CB	ALA	117	78.223	45.014	15.727	1.00 14.94	A_13
MOTA	1068	С	ALA	117	78.735	42.579	15.863	1.00 25.24	A_13
ATOM	1069	ō	ALA	117	78.562	41.872	14.861	1.00 18.50	
ATOM	1070	Ň	ALA	118	79.795				A_13
MOTA	1072					42.458	16.665	1.00 24.40	A_13
		CA	ALA	118	80.829	41.451	16.422	1.00 11.80	A_13
ATOM	1073	CB	ALA	118	81.945	41.590	17.447	1.00 19.28	A_13
ATOM	1074	Ċ	ALA	118	80.178	40.056	16.496	1.00 10.00	A_13
MOTA	1075	0	ALA	118	80.426	39.183	15.660	1.00 10.00	A_13
MOTA	1076	N	HIS	119	79.309	39.875	17.487	1.00 19.01	A_13
ATOM	1078	CA	HIS	119	78.587	38.624	17.674	1.00 14.36	A_13
ATOM	1079	CB	HIS	119	77.725	38.751	18.924	1.00 10.00	A_13
ATOM	1080	CG	HIS	119	. 76.796	37.602	19.166	1.00 10.00	A_13
ATOM	1081		HIS	119	75.691	37.187	18.498	1.00 14.94	A_13
ATOM	1082		HIS	119	76.905	36.783	20.263		W_13
ATOM	1084		HIS	119	75.917		20.203	1.00 20.37	A_13
ATOM	1085					35.909	20.270	1.00 17.53	A_13
			HIS	119	75.161	36.134	19.208	1.00 17.55	A_13
MOTA	1086	C	HIS	119	77.741	38.339	16.419	1.00 10.00	A_13
ATOM	1087	0	HIS	119	77.779	37.245	15.856	1.00 10.64	A_13
MOTA	1088	И	СГÀ	120	77.004	39.343	15.968	1.00 22.95	A_13
MOTA	1090	CA	GLU	120	76.174	39.224	14.775	1.00 23.96	A_13
MOTA	1091	CB	GLU	120	75.429	40.545	14.502	1.00 17.19	A_13
ATOM	1092	CG	GLU	120	74.373	40.889	15.555	1.00 16.14	A_13
ATOM	1093	CD	GLU	120	73.492	39.691	15.929	1.00 10.00	A_13
MOTA	1094		GLU	120	73.478	39.354	17.122	1.00 17.94	A_13
ATOM	1095		GLU	120	72.844	39.078	15.047		V-13
ATOM	1096			120				1.00 17.03	A_13
MOTA	1097	C	GLU		76.992	38.832	13.549	1.00 11.45	A_13
ATOM		0	GLU	120	76.594	37.946	12.772	1.00 13.34	A_13
	1098	N	PHE	121	78.127	39.498	13.353	1.00 10.00	A_13
ATOM	1100	CA	PHE	121	78.959	39.187	12.216	1.00 14.70	A_13
MOTA	1101	CB	PHE	121	80.040	40.245	12.039	1.00 10.00	A_13
MOTA	1102	CG	PHE	121	79.481	41.623	11.792	1.00 21.57	A_13
MOTA	1103	CD1	PHE	121	80.235	42.764	12.069	1.00 16.73	A_13
MOTA	1104		PHE	121	78.164	41.788	11.331	1.00 13.91	A_13
MOTA	1105		PHE	121	79.682	44.054	11.891	1.00 11.69	A_13
ATOM	1106	CE2	PHE	121	77.615	43.066			
ATOM	1107	CZ	PHE	121			11.152	1.00 18.93	A_13
MOTA	1108				78.373	44.192	11.436	1.00 10.00	A_13
MOTA		Č	PHE	121	79.505	37.756	12.283	1.00 17.14	A_13
	1109	0	PHE	121	79.642	37.104	11.256	1.00 13.04	A_13
ATOM	1110	N	GLY	122	79.738	37.245	13.490	1.00 16.60	A_13

ATOM	1112	CA GLY	122	00 000	35 073			
				80.202	35.872	13.627	1.00 19.45	A_13
MOTA	1113	C GLY	122	79.162	34.982	12.966	1.00 18.55	A_13
MOTA	1114	O GLY	122	79.500	33.988	12.306	1.00 10.03	A_13
ATOM	1115	N HIS	123	77.892	35.361	13.140	1.00 18.22	A_13
ATOM	1117	CA HIS	123	76.753	34.665	12.525	1.00 16.31	A_13
ATOM	1118	CB HIS	123	75.424	35.224	13.031	1.00 11.35	A_13
ATOM	1119							
			123	75.049	34.768	14.403	1.00 10.33	A_13
MOTA	1120	CD2 HIS	123	74.552	35.454	15.457	1.00 16.64	A_13
MOTA	1121'	ND1 HIS	123	75.097	33.450	14.782	1.00 18.04	A_13
MOTA	1123	CE1 HIS	123	74.638	33.332	16.017	1.00 16.66	A_13
ATOM	1124	NE2 HIS	123	74.301	34.533	16.450	1.00 25.32	A_13
ATOM	1125		123			10.450		A_13
				76.771	34.853	10.997	1.00 13.66	A_13
MOTA	1126	O HIS	123	76.565	33.901	10.246	1.00 10.82	A_13
MOTA	1127	N SER	124	77.006	36.082	10.539	1.00 13.57	A_13
MOTA	1129	CA SER	124	77.030	36.368	9.099	1.00 12.03	A_13
MOTA	1130	CB SER	124	77.311	37.863	8.832	1.00 10.35	A_13
ATOM	1131	OG SER	124	76.399	38.706	9.510	1.00 14.26	A_13
ATOM	1133	C SER	124	78.117	35.548	8.422		
							1.00 21.45	A_13
ATOM	1134	O SER	124	78.079	35.333	7.210	1.00 10.00	A_13
ATOM	1135	N LEU	125	79.091	35.108	9.216	1.00 10.00	A_13
ATOM	1137	CA LEU	125	80.222	34.340	8.707	1.00 19.28	A_13
ATOM	1138	CB LEU	125	81.521	34.754	9.422	1.00 22.39	A_13
ATOM	1139	CG LEU	125	81.849	36.258	9.340	1.00 10.00	A_13
ATOM	1140	CD1 LEU	125	83.063	36.622	10.190		2-13
							1,00 10.00	A_13
MOTA	1141	CD2 LEU	125	82.029	36.651	7.873	1.00 10.00	A_13
ATOM	1142	C LEU	125	79.986	32.851	8.843	1.00 10.00	A_13
MOTA	1143	O LEU	125	80.759	32.056	8.329	1.00 23.27	A_13
ATOM	1144	N GLY	126	78.932	32.477	9.563	1.00 22.87	A_13
ATOM	1146	CA GLY	126	78.604	31.070	9.720	1.00 17.27	A_13
ATOM	1147	C GLY	126	78.781				v-12
					30.464	11.094	1.00 11.71	A_13
ATOM	1148	O GLY	126	78.784	29.244	11.236	1.00 24.16	A_13
ATOM	1149	N LEU	127	78.972	31.297	12.105	1.00 18.95	A_13
ATOM	1151	CA LEU	127	79.152	30.790	13.457	1.00 22.84	A_13
ATOM	1152	CB LEU	127	80.113	31.693	14.252	1.00 11.92	A_13
ATOM	1153	CG LEU	127	81.244	30.969	14.983	1.00 18.83	A_13
ATOM	1154	CD1 LEU	127		30.197			
				82.096		13.979	1.00 16.63	A_13
MOTA	1155	CD2 LEU	127	82.104	31.970	15.760	1.00 22.15	A_13
MOTA	1156	C LEU	127	77.802	30.699	14.163	1.00 21.02	A_13
MOTA	1157	O LEU	127	76.996	31.629	14.098	1.00 14.68	A_13
ATOM	1158	N ASP	128	77.563	29.572	14.828	1.00 18.87	A_13
ATOM	1160	CA ASP	128	76.336	29.345	15.571	1.00 16.46	A_13
ATOM	1161	CB ASP	128					A_13
				75.996	27.855	15.540	1.00 17.60	A_13
MOTA	1162	CG ASP	128	74.577	27.552	15.996	1.00 23.55	. A_13
MOTA	1163	OD1 ASP	128	73.796	28.488	16.258	1.00 10.00	A_13
MOTA	1164	OD2 ASP	128	74.236	26.355	16.087	1.00 32.36	A_13
MOTA	1165	C ASP	128	76.634	29.803	16.995	1.00 10.00	A_13
ATOM	1166	O ASP	128	77.650	30.420	17.244	1.00 29.54	A_13
ATOM	1167	N HIS	129	75.714	29.565	17.912	1.00 10.00	
ATOM								A_13
	1169	CA HIS	129	75.910	29.955	19.289	1.00 10.00	A_13
ATOM	1170	CB HIS	129	74.582	30.033	20.029	1.00 21.30	A_13
ATOM	1171.	CG HIS	129	73.798	31.282	19.761	1.00 24.16	A_13
ATOM	1172	CD2 HIS	129	74.180	32.585	19.725	1.00 10.00	A_13
ATOM	1173	ND1 HIS	129	72.460	31.263	19.476	1.00 21.70	A_13
ATOM	1175	CE1 HIS	129	72.031	32.501	19.271	1.00 10.27	
ATOM	1176	NE2 HIS	129	73.057				A_13
					33.319	19.407	1.00 14.37	A_13
MOTA	1177	C HIS	129	76.780	28.947	19.992	1.00 30.04	A_13
MOTA	1178	O HIS	129	76.624	27.730	19.822	1.00 22.13	A_13
ATOM	1179	n ser	130	77.628	29.468	20.860	1.00 18.60	A_13
MOTA	1181	CA SER	130	78.534	28.662	21.636	1.00 10.79	· A_13
ATOM	1182	CB SER	130	79.849	29.435	21.816	1.00 21.31	2 13
ATOM	1183	OG SER						A_13
			130	80.782	28.731	22.616	1.00 16.34	A_13
ATOM	1185	C SER	130	77.898	28.368	22.987	1.00 31.13	A_13
MOTA	1186	O SER	130	76.962	29.060	23.440	1.00 15.87	A_13 ,
MOTA	1187	N LYS	131	78.402	27.319	23.619	1.00 13.13	A_13
MOTA	1189	CA LYS	131	77.924	26.925	24.928	1.00 13.21	A_13
ATOM	1190	CB LYS	131	77.656				V-13
					25.414	24.990	1.00 18.85	A_13
ATOM	1191	CG LYS	131	78.689	24.541	24.303	1.00 32.55	A_13
ATOM	1192	CD LYS	131	78.547	24.601	22.790	1.00 41.54	A_13
MOTA	1193	CE LYS	131	79.909	24.672	22.117	1.00 19.64	A_13
MOTA	1194	NZ LYS	131	80.747	25.799	22.617	1.00 13.47	A_13
ATOM	1198	C LYS	131	78.922	27.379	25.982		A_13
ATOM	1199	O LYS	131				1.00 10.00	A_13
ATOM				78.666	27.260	27.185	1.00 13.35	A_13
	1200	N ASP	132	80.025	27.968	25.519	1.00 13.47	A_13
ATOM	1202	CA ASP	132	81.097	28.487	26.375	1.00 10.04	A_13
MOTA	1203	CB ASP	132	82.376	28.617	25.522	1.00 18.14	A_13
ATOM	1204	CG ASP	132	83.649	28.821	26.345	1.00 16.54	A_13
ATOM	1205	OD1 ASP	132	84.645	28.132	26.028	1.00 36.08	V-13
		200		04.047	20.132	20.020	2.00 30.08	A_13

ATOM 1206 OD2 ASP 132 83.685 29.660 27.276 1.00 15.60 ATOM 1207 C ASP 132 80.603 29.875 26.836 1.00 18.74 ATOM 1208 O ASP 132 80.559 30.816 26.038 1.00 14.61 ATOM 1208 N PRO 133 80.305 30.039 28.142 1.00 15.61 ATOM 1210 CD PRO 133 80.305 30.039 28.142 1.00 15.61 ATOM 1211 CA PRO 133 79.818 31.320 28.662 1.00 10.00 ATOM 1211 CA PRO 133 79.818 31.320 28.662 1.00 10.00 ATOM 1212 CB PRO 133 79.818 31.320 28.662 1.00 10.00 ATOM 1213 CG PRO 133 80.633 30.063 30.450 1.00 30.94 ATOM 1214 C PRO 133 80.633 30.063 30.450 1.00 30.94 ATOM 1215 O PRO 133 80.633 30.063 30.450 1.00 21.65 ATOM 1216 N GLY 134 82.070 32.115 28.174 1.00 21.65 ATOM 1218 CA GLY 134 83.055 33.167 28.028 1.00 15.22 ATOM 1218 CA GLY 134 83.055 33.167 28.028 1.00 15.22 ATOM 1219 C GLY 134 83.962 34.488 26.252 1.00 18.06 ATOM 1221 N ALA 135 82.490 32.846 26.252 1.00 18.06 ATOM 1221 N ALA 135 82.490 32.846 25.706 1.00 27.50 ATOM 1224 CB ALA 135 82.547 33.110 24.263 1.00 27.50 ATOM 1225 C ALA 135 82.547 33.110 24.263 1.00 27.50 ATOM 1227 N LEU 136 82.220 34.990 22.787 1.00 19.10 ATOM 1227 N LEU 136 82.220 34.990 22.787 1.00 19.10 ATOM 1227 N LEU 136 82.220 34.990 22.787 1.00 19.10 ATOM 1227 N LEU 136 81.250 37.296 19.024 1.00 21.65 ATOM 1233 CD ALA 135 80.641 34.556 24.328 1.00 17.22 ATOM 1233 CD ALE 136 81.540 36.140 22.203 1.00 21.65 ATOM 1231 CG LEU 136 81.540 36.140 22.203 1.00 21.65 ATOM 1231 CG LEU 136 81.540 36.140 22.203 1.00 21.65 ATOM 1231 CG LEU 136 81.540 36.140 22.203 1.00 21.65 ATOM 1233 CD LEU 136 81.250 37.296 19.024 1.00 24.18 ATOM 1233 CD LEU 136 81.250 37.296 19.024 1.00 24.18 ATOM 1233 CD LEU 136 81.250 37.296 19.024 1.00 10.00 ATOM 1235 C LEU 136 80.250 35.632 21.558 1.00 10.00 ATOM 1235 C LEU 136 80.250 35.632 21.558 1.00 10.00 ATOM 1235 C LEU 136 80.250 35.632 21.558 1.00 10.00 ATOM 1235 C LEU 136 80.250 35.632 21.558 1.00 10.00 ATOM 1234 C LEU 136 80.250 35.632 21.558 1.00 10.00 ATOM 1234 C LEU 136 80.250 35.632 21.558 1.00 10.00 ATOM 1235 C LEU 136 80.250 35.632 21.558 1.00 10.00 ATOM 1234 C MET 137 79.366 34.665 17.397 1.00 10.65	A_13 A_13 A_13 A_13 A_13 A_13 A_13 A_13
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ATOM 1232 CD1 LEU 136 81.250 37.296 19.024 1.00 24.18 ATOM 1233 CD2 LEU 136 81.113 38.896 20.905 1.00 10.00 ATOM 1234 C LEU 136 80.250 35.632 21.558 1.00 19.32 ATOM 1235 O LEU 136 79.266 36.359 21.458 1.00 26.20 ATOM 1236 N MET 137 80.297 34.409 21.029 1.00 10.00 ATOM 1238 CA MET 137 79.123 33.791 20.423 1.00 10.02 ATOM 1239 CB MET 137 79.507 32.691 19.428 1.00 15.14 ATOM 1240 CG MET 137 80.181 33.223 18.169 1.00 15.14 ATOM 1241 SD MET 137 79.366 34.665 17.397 1.00 10.65 ATOM 1242 CE MET 137 77.848 34.005 16.975 1.00 10.65 ATOM 1243 C MET 137 77.848 34.005 16.975 1.00 10.87 ATOM 1244 O MET 137 77.848 34.005 16.975 1.00 10.87 ATOM 1244 O MET 137 77.187 32.539 21.087 1.00 10.00 ATOM 1245 N PHE 138 78.295 33.627 22.713 1.00 18.70 ATOM 1247 CA PHE 138 77.370 33.196 23.759 1.00 24.08 ATOM 1248 CB PHE 138 77.370 33.196 23.759 1.00 24.15 ATOM 1249 CG PHE 138 77.370 33.222 27.336 1.00 27.07 ATOM 1249 CG PHE 138 77.306 32.617 26.240 1.00 29.38 ATOM 1250 CD1 PHE 138 76.694 33.222 27.336 1.00 27.07 ATOM 1251 CD2 PHE 138 77.253 31.226 26.123 1.00 21.37	A_13 A_13 A_13 A_13 A_13 A_13 A_13 A_13
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ATOM 1251 CD2 PHE 138 77.253 31.226 26.123 1.00 21.37	A_13
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ATOM 1252 CE1 PHE 138 76.033 32.455 28.289 1.00 30.35	A_13
TOO 10.53	A_13
1 more 4.00 4 more 100 47100	A_13
3000 311070 20.134 1.00 17.09	A_13
100 100 100 100 100 100 100 100 100 100	A_13
70.225 33.203 23.014 1.00 10.27	A_13
3mov 1050 1.00 13.04	A_13
3 MANY 4 DEC	A_13
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ATOM 1261 CG PRO 139 73.474 31.634 23.305 1.00 24.22	. A_13
ATOM 1262 C PRO 139 73.162 35.018 24.584 1.00 16.51	A_13
ATOM 1263 O PRO 139 72.023 35.467 24.535 1.00 24.45	A_13
ATOM 1264 N ILE 140 74.034 35.375 25.524 1.00 23.16	A_13
ATOM 1266 CA ILE 140 73.652 36.290 26.604 1.00 25.00	A <u>_</u> 13
ATOM 1267 CB ILE 140 73.688 35.559 27.966 1.00 12.10	A_13
ATOM 1268 CG2 ILE 140 73.336 36.519 29.085 1.00 12.62	A_13
ATOM 1269 CG1 ILE 140 72.738 34.341 27.904 1.00 22.67	A_13
ATOM 1270 CD1 ILE 140 72.827 33.353 29.073 1.00 27.73	A_13
ATOM 1271 C ILE 140 74.584 37.489 26.621 1.00 30.64	A_13
ATOM 1272 O ILE 140 75.778 37.317 26.682 1.00 23.16	A_13
ATOM 1273 N TYR 141 74.033 38.694 26.532 1.00 21.05	A_13
ATOM 1275 CA TYR 141 74.851 39.901 26.528 1.00 20.10	A_13
ATOM 1276 CB TYR 141 74.017 41.122 26.129 1.00 17.66	A_13
ATOM 1277 CG TYR 141 74.784 42.433 26.103 1.00 22.24	y 13
ATOM 1278 CD1 TYR 141 74.711 43.318 27.171 1.00 18.07	A_13
100 1010 1010 1010 1010 1010 1010 1010	A_13
13.300 44.321 27.144 1.00 13.04	A_13
70,303 42,730 24,333 1,00 10.00	A_13
1004 1003 OF MID	A_13
TMON 1000 1.00 25:17	A_13
ATOM 1205 0 mm	A_13
13.333 40.103 27.832 1.00 19.01	A_13
74.510 40.140 20.515 1.00 10.00	A_13
ATOM 1287 N THR 142 76.817 40.476 27.772 1.00 26.26 ATOM 1289 CA THR 142 77.612 40.788 28 944 1.00 24.52	A_13
170M 1200 CD MID 415	A_13
ATOM 1290 CB THR 142 78.498 39.568 29.362 1.00 10.00	A_13
ATOM 1291 OG1 THR 142 77.664 38.587 29.981 1.00 37.30	A_13

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MOTA	1293	CG2	THR	142	79.543	39.961	30.390	1.00 14.88	A_13
ATOM	1294	c	THR	142	78.467	41.976	28.580	1.00 25.46	A_13
ATOM	1295	ŏ	THR	142	78.980	42.058	27.464	1.00 10.00	A_13
MOTA	1296	N	TYR	143	78.5 7 5	42.947	29.476	1.00 20.23	A_13
ATOM	1298	CA	TYR	143	79.412	44.079	29.133	1.00 32.69	A_13
ATOM	1299	CB	TYR	143	79.024	45.363	29.854	1.00 35.01	A_13
ATOM				143	79.834	46.531			
	1300	CG	TYR				29.347		A_13
MOTA	1301	CD1		143	79.776	46.910	27.998	1.00 12.56	A_13
ATOM	1302	CE1	TYR	143	80.554	47.961	27.510	1.00 19.23	A_13
MOTA	1303	CD2	TYR	143	80.690	47.230	30.196	1.00 19.43	A_13
ATOM	1304	CE2	TYR	143	81.478	48.287	29.719	1.00 15.52	A_13
ATOM	1305	CZ	TYR	143	81.403	48.643	28.376	1.00 12.56	A_13
ATOM	1306	OH	TYR	143	82.193	49.654	27.892	1.00 18.85	A_13
MOTA	1308	С	TYR	143	80.871	43.754	29.382	1.00 25.10	A_13
MOTA	1309	0	TYR	143	81.373	43.846	30.503	1.00 28.90	A_13
ATOM	1310	N	THR	144	81.539	43.375	28.303	1.00 35.25	A_13
MOTA	1312	CA	THR	144	82.946	43.029	28.336	1.00 38.86	A_13
ATOM	1313	СВ	THR	144	83.158	41.568	27.873	1.00 23.22	A_13
ATOM	1314		THR	144	82.129	41.219	26.934	1.00 35.22	A_13
MOTA	1316	CG2	THR	144	83.105	40.616	29.082	1.00 17.53	A_13
			THR	144	83.720	44.017	27.488	1.00 21.63	A_13
MOTA	1317	C				43.651		1.00 21.03	
MOTA	1318	0	THR	144	84.434		26.556		A_13
MOTA	1319	N	GLY	145	83.504	45.288	27.798	1.00 14.47	A_13
MOTA	1321	CA	GLY	145	84.200	46.375	27.131	1,00 24.39	À_13
MOTA	1322	С	GLY	145	84.119	46.536	25.628	1.00 41.65	A_13
ATOM	1323	, O	GLY	145	84.053	45.565	24.877	1.00 42.39	A_13
MOTA	1324	N	LYS	146	84.122	47.792	25.195	1.00 33.04	A_13
ATOM	1326	CA	LYS	146	84.059	48.103	23.778	1.00 29.29	A_13
MOTA	1327	CB	LYS	146	83.260	49.392	23.539	1.00 26.47	A_13
ATOM	1328	CG	LYS	146	83.087	49.721	22.059	1.00 33.24	A_13
ATOM	1329	CD	LYS	146	82.812	51.194	21.833	1.00 13.70	A_13
ATOM	1330	CE	LYS	146	82.620	51.497	20.343	1.00 18.35	A_13
ATOM	1331	NZ	LYS	146	83.766	51.122	19.477	1.00 30.66	A_13
ATOM	1335	C	LYS	146	85.491	48.297	23.308	1.00 41.61	A_13
ATOM	1336	ō	LYS	146	86.028	49.412	23.382	1.00 46.44	A_13
ATOM	1337	N	SER	147	86.130	47.206	22.898	1.00 34.67	A_13
MOTA	1339	CA	SER	147	87.509	47.258	22.416	1.00 30.76	7_13
									A_13
ATOM	1340	CB	SER	147	87.624	48.258		1.00 24.56	A_13
ATOM	13'41	OG	SER	147	86.638	48.002	20.257	1.00 31.81	A_13
ATOM	1343	C	SER	147	88.464	47.626	23.567	1.00 33.60	A_13
ATOM	1344	0	SER	147	. 88.789	48.806	23.789	1.00 39.96	A_13
ATOM	1345	N	HIS	148	88.862	46.611	24.331	1.00 36.71	, A_13
ATOM	1347	CA	HIS	148	89.778	46.769	25.467	1.00 34.40	A_13
ATOM	1348	CB	HIS	148		47.862	26.438	1.00 26.40	A_13
ATOM	1349	CG	HIS	148	90.251	49.022	26.537	1.00 39.11	A_13
MOTA	1350	CD2	HIS	148	90.929	49.542	27.588	1.00 30.52	A_13
MOTA	1351	ND1	HIS	148	90.635	49.767	25.437	1.00 37.71	A_13
ATOM	1353	CE1	HIS	148	91.511	50.681	25.807	1.00 29.04	A_13
ATOM	1354	NE2	HIS	148	91.707	50.567	27.110	1.00 29.03	A_13
MOTA	1356	С	HIS	148	89.949	45.436	26.190	1.00 39.41	A_13
ATOM	1357	Ō	HIS	148	90.134	45.373	27.411	1.00 35.01	A_13
ATOM	1358	N	PHE	149	89.840	44.386	25.383	1.00 25.35	A_13
MOTA	1360	CA	PHE	149	89.996	42.966	25:721	1.00 30.54	
ATOM	1361	СВ	PHE	149	88.788	42.423	26.495	1.00 33.34	A_13 A_13
MOTA	1362	CG	PHE	149	88.951	42.440	27.996	1.00 31.37	A_13
MOTA	1363		PHE	149	89.387	41.302	28.673	1.00 30.46	
MOTA	1364		PHE	149	88.624	43.575			A_13
							28.740	1.00 40.67	A_13
MOTA	1365		PHE	149	89.492	41.293	30.075	1.00 18.92	A_13
ATOM	1366		PHE	149	88.728	43.574	30.136	1.00 23.23	A_13
MOTA	1367	CZ	PHE	149	89.161	42.430	30.803	1.00 17.03	A_13
MOTA	1368.	С	PHE	149	90.026	42.366	24.295	1.00 41.76	A_13
MOTA	1369	0	PHE	149	89.967	43.119	23.307	1.00 40.43	A_13
MOTA.	1370	N	MET	150	90.132	41.050	24.142	1.00 31.30	A_13
ATOM	1372	CA	MET	150	90.152	40.531	22.779	1.00 20.65	A_13
MOTA	1373	CB	MET	150	91.588	40.195	22.352	1.00 28.29	A_13
ATOM	1374	CG	MET	150	92.494	41.436	22.188	1.00 34.71	A_13
ATOM	1375	SD	MET	150	91.750	42.780	21.185	1.00 67.91	A_13
ATOM	1376	CE	MET	150	92.512	42.498	19.518	1.00 22.43	A_13
ATOM	1377	C	MET	150	89.201	39.370	22.497	1.00 21.51	A_13
MOTA	1378	ŏ	MET	150	88.498	38.901	23.391	1.00 25.37	A_13
ATOM	1379	N	LEU	151	89.159	38.938	23.391	1.00 23.37	A_13
ATOM	1381	CA	LEU	151					N_13
ATOM					88.313	37.825	20.834	1.00 14.73	A_13
	1382	CB	LEU		88.435	37.589	19.321	1.00 15.49	A_13
MOTA	1383	CG	LEU		87.535	36.511	18.691	1.00 27.05	A_13
MOTA	1384		LEU		86.070	36.915	18.847	1.00 10.98	A_13
MOTA	1385		LEU		87.879	36.310	17.208	1.00 15.73	A_13
MOTA	1386	С	LEU	151	88.732	36.563	21.600	1.00 25.01	A_13

MOTA	1387	0	LEU	151	89.912	36 170	21 500	1 00 17 37	. 12
ATOM	1388	N	PRO	152	87.777	36.178	21.589 22.306	1.00 17.37	A_13 A_13
ATOM	1389	CD	PRO	152	86.425	35.927 36.450	22.575	1.00 10.37 1.00 15.35	A_13 A_13
ATOM	1390	CA	PRO	152	88.030	34.712	23.087	1.00 11.49	A_13
ATOM	1391	CB	PRO	152	86.658	34.412	23.702	1.00 15.98	A_13
ATOM	1392	CG	PRO	152	86.083	35.789	23.898	1.00 27.60	A_13
MOTA	1393	С	PRO	152	88.533	33.553	22.230	1.00 18.06	A_13
ATOM	1394	0	PRO	152	88.160	33.430	21.063	1.00 16.21	A_13
MOTA	1395	N	ASP	153	89.350	32.696	22.836	1.00 15.86	A_13
MOTA	1397	CA	ASP	153	89.933	31.526	22.185	1.00 20.25	A_13
MOTA	1398	CB	ASP	153	90.632	30.630	23.227	1.00 18.17	A_13
MOTA	1399	CG	ASP	153		31.301	23.908	1.00 24.01	A_13
MOTA	1400	OD1	ASP	153	92.517	32.159	23.284	1.00 14.96	A_13
MOTA	1401	OD2	ASP	153	92.131	30.937	25.077	1.00 20.20	λ_13 ΄
MOTA	1402	С	ASP	153	88.887	30.678	21.452	1.00 24.64	A_13
MOTA	1403	0	ASP	153	89.113	30.221	20.330	1.00 13.51	A_13
MOTA	1404	N	ASP	154	87.757	30.453	22.114	1.00 24.11	A_13
MOTA	1406	CA	ASP	154	86.664	29.657	21.577	1.00 19.19	A_13
MOTA	1407	CB	ASP	154	85.527	29.632	22.587	1.00 18.27	A_13
ATOM	1408	CG	ASP	154	84.406	28.751	22.161	1.00 24.26	A_13
MOTA	1409		ASP	154	83.314	29.291	21.950	1.00 20.97	A_13
MOTA MOTA	1410 1411		ASP	154 154	84.609	27.530	22.031	1.00 20.32	A_13
ATOM	1412	C	ASP ASP	154	86.162 86.043	30.170 29.408	20.229 19.277	1.00 18.99	A_13
ATOM	1413	N	ASP	155	85.873	31.465	20.158	1.00 22.56 1.00 16.11	A_13
ATOM	1415	CA	ASP	155	85.407	32.078	18.917	1.00 25.30	A_13 A_13
ATOM	1416	CB	ASP	155	85.011	33.527	19.158	1.00 23.30	A_13
ATOM	1417	CG	ASP	155	83.975	33.655	20.249	1.00 11.19	A_13
ATOM	1418		ASP	155	84.347	34.136	21.332	1.00 12.26	A_13
ATOM	1419		ASP	155	82.810	33.255	20.029	1.00 10.00	A_13
MOTA	1420	С	ASP	155	86.461	31.992	17.828	1.00 13.98	A_13
ATOM	1421	0	ASP	155	86.141	31.656	16.687	1.00 14.08	A_13
ATOM	1422	N	VAL	156	87.713	32.310	18.160	1.00 16.49	A_13
ATOM	1424	CA	VAL	156	88.771	32.201	17.159	1.00 27.34	A_13
ATOM	1425	CB	VAL	156	90.145	32.826	17.625	1.00 23.59	A_13
MOTA	1426		VAL	156	90.327	32.750	19.119	1.00 13.94	A_13
MOTA	1427		VAL	156	91.312	32.153	16.919	1.00 21.70	A_13
MOTA	1428	Ç	VAL	156	88.874	30.738	16.657	1.00 16.95	A_13
MOTA	1429	0	VAL	156	88.946	30.506	15.448	1.00 13.79	A_13
ATOM	1430	N	GLN	157	88.762	29.763	17.561	1.00 19.45	A_13
MOTA	1432	CA	GLN	157	88.796	28.352	17.154	1.00 30.53	A_13
ATOM	1433	CB	GLN	157	88.579	27.422	18.353	1.00 23.08	A_13
MOTA MOTA	1434 1435	CG	GLN GLN	157	89.633	27.521	19.452	1.00 24.83	A_13
ATOM	1435		GLN	157 157	90.950	26.872	19.089	1.00 20.26	A_13
MOTA	1437	NE2		157	91.743 91.204	27.422 25.702	18.316 19.673	1.00 25.80 1.00 38.67	A_13
ATOM	1440	C	GLN	157	87.667	28.136	16.148	1.00 38.67	A_13 A_13
ATOM	1441	ŏ	GLN	157	87.869	27.541	15.096	1.00 14.11	A_13
ATOM	1442	N	GLY	158	86.505	28.709	16.437	1.00 19.16	A_13
MOTA	1444	CA	GLY	158	85.361	28.584	15.551	1.00 12.79	A_13
MOTA	1445	С	GLY	158	85.510	29.144	14.143	1.00 24.46	A_13
MOTA	1446.	0	GLY	158	85.181	28.449	13.177	1.00 18.77	A_13
MOTA	1447	N	ILE	159	85.936		13.989	1.00 22.41	A_13
ATOM	1449	CA	ILE	159	86.091	30.946	12.628	1.00 31.18	. A_13
MOTA	1450	CB	ILE	159	86.300	32.508	12.532	1.00 23.53	A_13
ATOM	1451		ILE)		84.991	33.203	12.177	1.00 17.28	A_13
ATOM	1452		ILE	159	87.022	33.063	13.758	1.00 15.28	A_13
MOTA	1453		ILE	159	88.507	32.949	13.707	1.00 14.71	A_13
MOTA	1454	C	ILE	159	87.226	30.280	11.875	1.00 10.56	A_13
ATOM	1455	0	ILE	159	87.167	30.139	10.653	1.00 18.79	A_13
MOTA MOTA	1456	N	GLN	160	88.287	29.927	12.590	1.00 20.71	A_13
MOTA	1458 1459	CA	GLN	160	89.411	29.294	11.943	1.00 10.00	A_13
ATOM	1460	CB CG	GLN GLN	160	90.640	29.274	12.855	1.00 10.00	A_13
ATOM	1461			160	91.114	30.690	13.182	1.00 13.93	A_13
ATOM	1462	CD	GLN GLN	160 160	92.402	30.754	13.981	1.00 25.61	A_13
ATOM	1463	NE2		160	92.814	29.786 31.915	14.629	1.00 19.40	A_13
ATOM	1466	C	GLN GLN	160	93.042 89.000	27.917	13.950	1.00 24.78	A_13
ATOM	1467	ŏ	GLN	160	89.458	27.481	11.477 10.432	1.00 10.00 1.00 21.73	A_13 A_13
ATOM	1468	N	SER	161	88.068	27.268	12.186	1.00 21.73	A_13
MOTA	1470	CA	SER	161	87.610	25.946	11.760	1.00 10.63	A_13
ATOM	1471	CB	SER	161	86.688	25.292	12.800	1.00 18.40	A_13
MOTA	1472	OG	SER	161	85.365	25.795	12.759	1.00 15.44	A_13
MOTA	1474	C	SER	161	86.913	26.048	10.396	1.00 26.18	A_13
ATOM	1475	0	SER	161	86.839	25.065	9.654	1.00 13.96	A_13
MOTA	1476	N	LEU	162	86.428	27.247	10.070	1.00 19.36	A_13
MOTA	1478	CA	LEU	162	85.749	27.493	8.808	1.00 17.21	A_13

	*							
1 mov	3.470		1.00	04 504	20 422	0 007	1 00 14 0-	
MOTA	1479	CB LEU	162	84.584	28.477	9.007	1.00 14.37	A_13
ATOM	1480	CG LEU	162	83.489	28.144	10.021	1.00 31.09	A_13
ATOM	1481	CD1 LEU	162.	82.596	29.351	10.217	1.00 14.96	A_13
								7-13
MOTA	1482	CD2 LEU	162	82.672	26.949	9.548	1.00 23.87	A_13
ATOM	1483	C LEU	162	86.654	28.080	7.744	1.00 11.98	A_13
MOTA	1484	O LEU	162	86.596	27.680	6.584	1.00 15.25	A_13
ATOM	1485	N TYR	163	87.459	29.063	8.135	1.00 26.64	A_13
					29.796			
MOTA	1487	CA TYR	163	88.320		7.204	1.00 18.28	A_13
MOTA	1488'	CB TYR	163	87.977	31.289	7.277	1.00 26.89	A_13
MOTA	1489	CG TYR	163	86.519	31.600	7.039	1.00 18.80	
						7.039		A_13
MOTA	1490	CD1 TYR	163	86.027	31.744	5.749	1.00 10.00	A_13
ATOM	1491	CE1 TYR	163	84.680	31.936	5.515	1.00 12.83	A_13
MOTA	1492	CD2 TYR	163	85.622	31.672	8.099	1.00 16.58	A_13
ATOM	1493	CE2 TYR	163	84.266	31.867	7.873	1.00 12.32	A_13
								V-12
ATOM	1494	CZ TYR	163	83.807	31.991	6.576	1.00 11.77	A_13
ATOM	1495	OH TYR	163	82.472	32.141	6.331	1.00 21.93	A_13
MOTA:	1497	C TYR	163	89.818	29.669	7.397	1.00 15.67	A_13
MOTA	1498	O TYR	163	90.590	30.089	6.526	1.00 18.92	A_13
ATOM	1499	N GLY	164	90.225	29.096	8.525	1.00 18.34	A_13
MOTA	1501	CA GLY	164	91.636	28.966	8.826	1.00 10.61	A_13
ATOM	1502	C GLY	164	92.149	30.215	9.525	1.00 15.63	A_13
					30.213			7_13
MOTA	1503	O GLY	164	91.334	31.139	9.775	1.00 21.42	A_13
ATOM	1504	OT GLY	164	93.353	30.250	9.858	1.00 21.99	A_13
ATOM	3009	ZN ZN	166	73.275	35.223	18.371	1,.00 27.40	AION
ATOM	3010	ZN ZN	167	65.511	41.122	10.564	1.00 27.86	AION
MOTA	3011		168	64.285	44.152	21.635	1.00 11.76	AION
MOTA	3012	CA CA	165	73.319	39.377	1.854	1.00 40.73	AION
MOTA	3017	C5 WAY	169	67.400	35.999	20.267	1.00 38.86	A693
MOTA	3018	CF1 WAY	169	66.626	35.606	19.161	1.00 30.96	A693
ATOM	3019	CH WAY	169	67.199	35.400	17.901	1.00 41.17	A693
MOTA	3020	C2 WAY	169	68.561	35.623	17.728	1.00 36.26	A693
MOTA	3021	C3 WAY	169	69.339	36.039	18.811	1.00 35.73	A693
MOTA	3022	C4 WAY	169	68.807	36.216	20.078	1.00 33.71	A693
MOTA	3023	N20 WAY	169	69.699	36.617	21.141	1.00 33.16	A693
MOTA	3024		169					
				70.137	35.640	22.189	1.00 29.78	A693
ATOM	3025	C23 WAY	-169	68.986	34.739	22.685	1.00 25.69	A693
ATOM	3026	C28 WAY	169	68.187	35.088	23.798	1.00 31.72	A693
ATOM	3027	C27 WAY	169	67.141	34.238	24.205	1.00 33.61	A693
MOTA	3028	CM WAY	169	66.921	33.061	23.490	1.00 32.16	A693
ATOM	3029	N25 WAY	169	67.703	32.748	22.426	1.00 42.39	. A693
ATOM	3030	C24 WAY	169	68.709	33.546	22.016	1.00 27.88	A693
MOTA	3031	S21 WAY	169	69.757	38.213	21.577	1.00 24.43	A693
MOTA	3032	C16 WAY	169	71.513	38.570	21.438	1.00 29.69	A693
MOTA	3033	C21 WAY	169	72.032	39.163	20.269	1.00 19.32	A693
MOTA	3034	C20 WAY	169	73.400	39.453	20.169	1.00 11.82	A693
ATOM	3035	C19 WAY	169	74.267	39:156	21.241	1.00 19.50	A693
ATOM	3036	C18 WAY	169	73.748	38.564	22.402	1.00 11.88	· A693
MOTA	3037	C17 WAY	169	72.382	38.272	22.507	1.00 26.57	A693
MOTA	3038	033 WAY	169	75.623	39.445	21.141	1.00 16.99	A693
ATOM	3039	C36 WAY	169	76.504	39.509	22.271	1.00 12.69	A693
MOTA	3040	015 WAY	169	69.030	39.032	20.657	1.00 13.98	A693
MOTA	3041	O14 WAY	169	69.419	38.338	22.942	1.00 22.94	A693
MOTA	3042	C7 WAY	169	70.780	36.256	18.621	1.00 30.48	A693
					20.230	10.041		7022
ATOM	3043	n9 way	169	71.192	36.946	17.553	1.00 10.00	A693
ATOM	3044	O10 WAY	169	72.581	37.127	17.426	1.00 38.25	A693
MOTA	3045	OS WAY	169	71.614	35.847		1.00 39.46	A693
						19.414		
ATOM	3046	C29 WAY	169	66.584	36.175	21.566	1.00 46.13	A693
MOTA	1505	CB THR	7	40.443	57.305	5.225	1.00 21.20	B_13
			Ĺ			5.223		
MOTA	1506	OG1 THR	7	39.149	56.999	-5.762	1.00 25.31	⊸ B_13
ATOM	1508	CG2 THR	7	41.017	56.087	4.541	1.00 23.15	B_13
ATOM	1509		ż	40.920				B_13
		C THR	′		59.113	6.901	1.00 32.45	
MOTA	1510	O THR	. 7	41.453	59.582	7.908	1.00 36.97	B_13
ATOM	1513	N THR	7	41.386	56.786	7.488	1.00 34.12	B_13
MOTA	. 1515	CA THR	7	41.371	57.761	6.365	1.00 26.16	B_13
MOTA	1516	N LEU	8	39.907	59.694	6.265	1.00 23.60	B_13
								2-13
ATOM	1518	CA LEU		39.387	60.984	6.649	1.00 22.66	B_13
ATOM	1519	CB LEU	8	38.113	60.848	7.503	1.00 21.78	B_13
MOTA					61 404			~~~~
	1520	CG LEU	8	36.860	61.484	6.863	1.00 27.13	B_13
MOTA	1521	CD1 LEU	8	36.996	63.016	6.705	1.00 19.05	B_13
ATOM	1522	CD2 LEU	č					5-73
			8	36.622	60.854	5.510	1.00 19.23	B_13
MOTA	1523	C LEU	8	40.432	61.896	7.298	1.00 27.16	B_13
ATOM	1524	O LEU	8	41.077	62.667	6.597	1.00 46.24	B_13
			9					2_13
MOTA	1525	n Lys	9	40.615	61.804	8.618	1.00 27.84	B_13
ATOM	1527	CA LYS	9	41.572	62.674	9.306	1.00 15.20	B_13
ATOM	1528		á					
		CB LYS	9	41.147	64.143	9.148	1.00 32.32	B_13
ATOM	1529	CG LYS	9	39.663	64.342	8.853	1.00 29.47	B_13
ATOM	1530	CD LYS	9	38.788	64.243	10.084	1.00 28.34	B_13
			2	50.700	~ ~ . ~ 47	10.004	Z.UU &U.J4	

ATOM	1531	CE	LYS	9	20 020	CC CCC	10 040	1 00 10 40	- 43
					38.830	65.556	10.842	1.00 18.48	B_13
MOTA	1532	NZ	LYS	9	38.732	66.725	9.888	1.00 33.19	B_13
MOTA	1536	Ç	LYS	9	41.809	62.384	10.780	1.00 20.69	B_13
ATOM	1537	Õ	LYS	9	41.268	61.428	11.334	1.00 25.62	5-13
									B_13
MOTA	1538	N	TRP	10	42.654	63.208	11.390		B_13
ATOM	1540	CA	TRP	10	42.988	63.112	12.813	1.00 21.78	B_13
MOTA	1541	СВ	TRP	10	44.403	63.660	13.048	1.00 23.03	B_13
									5-13
ATOM	1542	CG	TRP	10	45.499	62.890	12.349	1.00 27.60	B_13
ATOM	1543	CD2	TRP	10	46.077	61.650	12.762	1.00 27.28	B_13
ATOM	1544	CE2	TRP	10	47.071	61.302	11.829	1.00 22.11	B_13
	1545					60.302			
MOTA			TRP	10	45.859	60.781	13.847	1.00 11.66	B_13
MOTA	1546	CD1	TRP	10	46.153	63.247	11.198	1.00 21.84	B_13
MOTA	1547	NE1	TRP	10	47.094	62.305	10.873	1.00 10.00	B_13
MOTA	1549	CZ2		10	47.847	60.143			
							11.929	1.00 25.24	B_13
MOTA	1550	CZ3	TRP	10	46.632	59.622	13.951	1.00 22.71	B_13
ATOM	1551	CH2	TRP	10	47.611	59.317	12.999	1.00 15.23	B_13
ATOM	1552	C.	TRP	10	41.987	63.915	13.679	1.00 30.88	B_13
	1553								
MOTA		0	TRP	10	41.673	65.062	13.359	1.00 32.03	B_13
MOTA	1554	N	SER	11	41.495	63.316	14.765	1.00 35.64	B_13
MOTA	1556	CA	SER	11	40.548	63.981	15.665	1.00 30.37	B_13
ATOM	1557	СВ	SER	11		62.995			5-13
					39.498		16.176	1.00 31.03	B_13
ATOM	1558	OG	SER	11	38.485	62.815	15.202	1.00 41.11	B_13
ATOM	1560	C	SER	11	41.206	64.691	16.840	1.00 20.70	B_13
ATOM	1561	0	SER	11	40.558	65.002	17.838	1.00 36.52	B_13
ATOM									
	1562	N	LYS	12	42.504	64.910	16.731	1.00 23.56	B_13
ATOM	1564	CA	LYS	12	43.257	65.607	17.756	1.00 15.00	B_13
ATOM	1565	CB	LYS	• 12	43.991	64.631	18.688	1.00 18.58	B_13
MOTA	1566	ĊĠ	LYS	12	44.658	63.452		1.00 15.94	
							18.010		B_13
ATOM	1567	CD	LYS	12	45.456	62.589	.19.007	1.00 23.03	B_13
ATOM .	1568	CE	LYS	12	44.593	61.715	19.933	1.00 27.10	B_13
ATOM	1569	NZ	LYS	12	44.075	62.402	21.157	1.00 34.75	B_13
								1.00 34.75	
MOTA	1573	C	LYS	12	44.200	66.453	16.914	1.00 25.03	B_13
MOTA	1574	0	LYS	12	44.567	66.039	15.808	1.00 25.20	B_13
ATOM	1575	N	MET	13	44.536	67.647	17.401	1.00 18.44	B_13
ATOM	1577		MET						
		CA		13	45.377	68.582	16.663	1.00 24.63	B_13
ATOM	1578	CB.	MET	13	44.864	70.015	16.880	1.00 13.15	B_13
MOTA	1579	CG	MET	. 13	43.421	70.253	16.419	1.00 21.56	B_13
MOTA	1580	SD	MET	13					5_13
					43.167	70.131	14.616	1.00 31.39	B_13
MOTA	1581	CE	MET	13	41.433	69.678	14.474	1.00 24.70	B_13
ATOM	1582	С	MET	13	46.850	68.468	17.034	1.00 11.65	B_13
MOTA	1583	0	MET	13	47.728	68.815	16.247	1.00 14.33	B_13
						00.013			
ATOM	1584	N	ASN	14	47.103	67.985	18.242	1.00 16.99	B_13
ATOM	1586	CA	ASN	14 .	48.448	67.793	18.760	1.00 24.42	B_13
MOTA	1587	CB	ASN	14	48.437	68.006	20.268	1.00 17.84	B_13
ATOM	1588	CG ·	ASN	14					
					47.896	69.356	20.633	1.00 35.10	B_13
MOTA	1589		ASN	14	48.614	70.346	20.560	1.00 34.88	B_13
ATOM	1590	ND2	ASN	14	46.610	69.424	20.955	1.00 32.98	B_13
ATOM	1593	С	ASN	14	48.831	66.364	18.421	1.00 22.70	
ATOM	1594								B_13
		0	ASN	14	48.278	65.405	18.976	1.00 26.03	B_13
MOTA	1595	\mathbf{N}	LEU	15	49.706	66.228	17.432	1.00 18.07	B_13
ATOM	1597	CA	LEU	15	50.144	64.912	16.969	1.00 29.36	B_13
MOTA	1598	CB	LEU	15	49.878	64.775			2-13
							15.466	1.00 24.35	B_13
MOTA	1599	CG		15	48.380		15.162	1.00 19.51	B_13
MOTA	1600	CD1	LEU	15	48.079	65.469	13.852	1.00 27.59	B_13
ATOM	1601	CD2	LEU	15	47.902	63.326	15.163	1.00 19.66	B_13
ATOM	1602		LEU	15			13.103		
		C			51.613	64.704	17.257	1.00 28.48	B_13
ATOM	1603	0	LEU	15	52.341	65.657	17.552	1.00 22.28	B_13
ATOM	1604	N	THR	16	52.044	63.453	17.198	1.00 12.77	B_13
MOTA	1606	CA	THR	16	53.433	63.158	17.446	1.00 16.59	B_13
ATOM	1607		THR						
		CB		16	53.607	62.243	18.682	1.00 24.73	B_13
ATOM	1608	OG1	THR	16	52.912	61.005	18.481	1.00 12.79	B_13
ATOM	1610	CG2	THR	16	53.059	62.933	19.924	1.00 25.34	B_13
ATOM	1611					62 515		1.00 23.34	2-13
		C	THR	16	54.038	62.515	16.214	1.00 21.94	B_13
MOTA	1612	0	THR	16	53.315	62.116	15.297	1.00 19.60	B_13
ATOM	1613	N	TYR	17	55.365	62.453	16.184	1.00 18.25	B_13
ATOM	1615	CA	TYR	17	56.092	61.810			
							15.097	1.00 19.54	B_13
MOTA	1616	CB	TYR	17	56.300	62.753	13.910	1.00 16.87	B_13
ATOM	1617	CG	TYR	17	57.277	63.892	14.116	1.00 27.90	B_13
ATOM	1618		TYR	Ĩ7	56.839	65.135		1.00 13.93	
							14.587		B_13
MOTA	1619		TYR	17	57.700	66.221	14.652	1.00 17.08	B_13
MOTA	1620	CD2	TYR	17	58.613	63.764	13.723	1.00 14.99	B_13
MOTA	1621	CE2	TYR	17	59.479	64.841	13.777	1.00 25.98	B_13
ATOM	1622	CZ	TYR	17	59.017				5-13
						66.075	14.242	1.00 33.12	B_13
ATOM	1623	OH	TYR	17	59.866	67.163	14.276	1.00 23.31	B_13
MOTA	1625	С	TYR	17	57.417	61.318	15.650	1.00 18.57	B_13
MOTA	1626	ŏ	TYR	17	57.895	61.827	16.668		
ATOM								1.00 26.60	B_13
OF	1627	N	ARG	18	57.973	60.286	15.030	1.00 13.01	B_13

ATOM	1629	CA	ARG	18	59.245	59.750	15.492	1 00 10 74	D 13
								1.00 18.74	B_13
ATOM	1630	CB	ARG	18	59.033	58.589	16.473	1.00 11.96	B_13
MOTA	1631	CG	ARG	18	60.320	57.911	16.970	1.00 15.06	B_13
ATOM	1632	CD	ARG	18	60.012	56.596	17.690	1.00 11.72	B_13
ATOM	1633	NE	ARG	18	61.165	55.689	17.752	1.00 10.00	B_13
	1635		ARG	18					
ATOM		CZ			61.134	54.428	18.181	1.00 24.87	B_13
ATOM	1636	NH1	ARG	18	60.004	53.882	18.614	1.00 13.34	B_13
ATOM	1639	NH2	ARG	18	62.247	53.703	18.169	1.00 20.03	B_13
ATOM	1642		ARG	18	60.076	59.309	14.307	1.00 13.14	
		_							B_13
MOTA	1643	0	ARG	18	59.598	58.588	13.434	1.00 14.10	B_13
MOTA	1644	N	ILE	19	61.304	59.813	14.252	1.00 15.55	B_13
ATOM	1646	CA	ILE	19	62.238	59.476	13.193	1.00 10.41	B_13
MOTA	1647	CB	ILE	19	63.307	60.603	13.054		
								1.00 17.20	B_13
MOTA	1648	CG2		19	64.273	60.307	11.903	1.00 16.57	B_13
MOTA	1649	CG1	ILE	19	62.613	61.952	12.836	1.00 15.47	B_13
MOTA	1650	CD1	ILE	19	63.543	63.110	12.783	1.00 14.99	B_13
MOTA	1651	C	ILE	19	62.870	58.166	13.673	1.00 10.00	B_13
MOTA	1652	0	ILE	19	63.829	58.179	14.434	1.00 10.00	B_13
ATOM	1653	N	VAL	20	62.289	57.037	13.276	1.00 17.84	B_13
MOTA	1655	CA	VAL	20	62.785	55.716	13.696	1.00 16.43	B_13
ATOM	1656	СВ	VAL	20	61.911	54.570	13.138	1.00 13.17	B_13
MOTA	1657		VAL	20	62.519	53.208	13.493	1.00 10.00	B_13
MOTA	1658	CG2	VAL	20	60.521	54.673	13.698	1.00 10.00	B_13
MOTA	1659	С	VAL	20	64.268	55.449	13.387	1.00 16.02	B_13
ATOM	1660	0	VAL	20	65.001	54.909	14.218	1.00 21.07	B_13
ATOM	1661	Ŋ	ASN	21	64.698	55.762			
							12.177	1.00 10.00	B_13
MOTA	1663	CA	ASN	21	66.098	55.571	11.830	1.00 22.13	B_13
MOTA	1664	CB	ASN	21	66.392	54.128	11.386	1.00 19.75	B_13
ATOM	1665	CG	ASN	21	65.549	53.673		1.00 17.63	B_13
ATOM	1666		ASN	21	65.329	52.477		1.00 31.82	
							10.042		B_13
MOTA	1667		ASN	21	65.109		9.375	1.00 11.42	B_13
ATOM	1670	С	ASN	21	66.504	56.645	10.821	1.00 10.14	. B_13
ATOM	1671	0	ASN	21	65.639	57.377	10.340	1.00 11.74	B_13
MOTA	1672	N	TYR	22	67.787	56.759	10.498		
	1072							1.00 12.25	B_13
MOTA	1674	CA	TYR	22	68.233	57.829	9.602	1.00 12.46	B_13.
MOTA	1675	CB	TYR	, 22	69.136	58.800	10.383	1.00 23.15	B_13
MOTA	1676	CG	TYR	22	68.461	59.584	11.492	1.00 21.95	B_13
MOTA	1677		TYR	22	68.221	60.945	11.348	1.00 22.29	B_13
ATOM	1678		TYR	22	67.625	61.678	12.347	1.00 10.00	B_13
MOTA	1679	CD2	TYR	22	68.077	58.974	12.687	1.00 13.42	B_13
ATOM	1680	CE2	TYR	22	67.471	59.710	13.693	1.00 14.69	B_13
MOTA	1681	CZ	TYR	22 .	67.254	61.064	13.505	1.00 12.89	B_13
ATOM	1682	OH	TYR	22					
					66.660	61.829	14.466	1.00 16.56	B_13
ATOM	1684	С	TYR	22	68.988	57.395	8.359	1.00 11.62	B_13
MOTA	1685	0	TYR	22	69.793	56.478	8.407	1.00 16.23	B_13
MOTA	1686	N	THR	23	68.792	58.111	7.261	1.00 10.39	B_13
ATOM	1688	CA	THR	23	69.503				
						57.800	6.024	1.00 20.36	B_13
MOTA	1689	CB	THR	23	68.909	58.582	4.829	1.00 16.21	B_13
MOTA	1690	OG1	THR	23	69.801	58.512	3.706	1.00 19.72	B_13
MOTA	1692	CG2	THR	. 23	68.663	60.039	5.206	1.00 16.62	B_13
ATOM	1693	С	THR	23	70.990	58.153	6.163	1.00 17.35	B_13
ATOM	1694	ŏ	THR	23					
					71.377	58.958	7.024	1.00 13.88	B_13
MOTA	1695	N	PRO	24	71.852	57.503	5.364	1.00 15.86	B_13
MOTA	1696	CD	PRO	24	71.625	56.247	4.629	1.00 17.29	B_13
MOTA	1697	CA	PRO	24	73.287	57.796	5.436	1.00 15.96	B_13
ATOM	1698	CB	PRO	24	73.920	56.570	4.763	1.00 10.00	B_13
ATOM	1699								
		CG	PRO	24	72.891	55.504	4.905	1.00 15.15	B_13
MOTA	1700	C	PRO	24	73.635	59.069	4.668	1.00 27.08	B_13
ATOM	1701	0	PRO	24	74.698	59.656	4.869	1.00 19.47	B_13
ATOM	1702	N	ASP	25	72.728	59.489	3.794	1.00 16.99	B_13
ATOM	1704	CA	ASP	25	72.927				
						60.663	2.958	1.00 10.00	B_13
MOTA	1705	CB	ASP	25	71.792	60.758	1.953	1.00 11.53	B_13
MOTA	1706	CG	ASP	25	71.665	59.521	1.105	1.00 33.88	B_13
ATOM	1707	OD1	ASP	25	70.570	59.311	0.556	1.00 22.66	B_13
ATOM	1708		ASP	25	72.653	58.762		1.00 29.59	2-13
							0.980		B_13
ATOM	1709	C	ASP	. 25	73.068	62.011	3.642	1.00 23.36	B_13
MOTA	1710	0	ASP	25	73.694	62.916	3.093	1.00 20.32	B_13
ATOM	1711	N	MET	26	72.480	62.158	4.826	1.00 18.44	B_13
ATOM	1713	CA	MET	26	72.510	63.432			
ATOM							5.537	1.00 13.83	B_13
	1714	CB	MET	26	71.154	64.151	5.368	1.00 10.00	B_13
ATOM	1715	CG	MET	26	70.782	64.491	3.913	1.00 28.32	B_13
MOTA	1716	ŞD	MET	26	69.016	64.786	3.599	1.00 12.18	B_13
ATOM	1717	CE	MET	26	68.395	63.255	3.887	1.00 37.25	B_13
ATOM	1718	č	MET	26	72.827				
						63.238	7.024	1.00 28.80	B_13
MOTA	1719	0	MET	26	72.839	62.107	7.533	1.00 20.90	B_13
MOTA	1720	N	THR	27	73.157	64.333	7.696	1.00 11.47	B_13
ATOM	1722	CA	THR	27	73.456	64.292	9.121	1.00 13.94	B_13

ATOM	1723	CB	THR	27	74.117	65.605	9.602	1.00 33.46	B_13
ATOM	1724	OG1		27	73.209				
	1726	CG2		_		66.702	9.415	1.00 10.00	B_13
ATOM		_		27	75.405	65.863	8.818	1.00 16.30	B_13
ATOM	1727	С	THR	27	72.135	64.113	9.861	1.00 10.67	B_13
ATOM	1728	0	THR	27	71.072	64.343	9.281	1.00 16.26	B_13
ATOM	1729	N	HIS	28	72.193	63.691	11.124	1.00 18.13	B_13
ATOM	1731	CA	HIS	28	70.986	63.514	11.915		
		СВ					11.915	1.00 10.00	B_13
ATOM	1732		HIS	28	71.322	63.033	13.333	1.00 10.00	B_13
MOTA	1733	CG	HIS	28	71.793	61.608	13.401	1.00 22.65	B_13
ATOM	1734	CD2	HIS	28	72.893	61.003	12.889	1.00 22.73	B_13
ATOM	1735	ND1	HIS	28	71.103	60.627	14.080		
ATOM	1737		HIS					1.00 19.90	B_13
				28	71.755	59.481	13.985	1.00 16.52	B_13
MOTA	1738		HIS	28	72.843	59.681	13.268	1.00 20.38	B_13
ATOM	1740	С	HIS	28	70.281	64.870	11.957	1.00 29.38	B_13
MOTA	1741	0	HIS	28	69.074	64.941	11.742	1.00 17.20	B_13
ATOM	1742	N	SER	29	71.056	65.944	12.153		
ATOM	1744	CA	SER	29				1.00 23.96	B_13
					70.533	67.322	12.192	1.00 15.01	B_13
ATOM	1745	CB	SER		71.661	68.334	12.438	1.00 14.05	B_13
ATOM	1746	OG	SER	29	72.117	68.303	13.770	1.00 18.32	B_13
ATOM	1748	С	SER	29	69.808	67.729	10.909	1.00 10.95	B_13
MOTA	1749	0	SER	29	68.732	68.314	10.971	1.00 24.24	B_13
ATOM	1750	N	GLU	30	70.415	67.449	9.757	1.00 10.96	
ATOM	1752	CA	GLU	30					B_13
					69.820	67.786	8.470	1.00 10.00	B_:13
ATOM	1753	CB	GLU	30	70.715	67.330	7.309	1.00 10.12	B_13
ATOM	1754	CG	GLU	30	71.967	68.143	7.042	1.00 22.31	B_13
ATOM	1755	CD	GLU	30	72.823	67.529	5.930	1.00 10.15	B_13
ATOM	1756	OE1	GLU	30	72.533	67.753	4.749	1.00 31.98	B_13
ATOM	1757		GLU	30	73.796	66.817	6.223		
ATOM	1758							1.00 29.59	B_13
		Č	GLU	30	68.481	67.073	8.336	1.00 20.17	B_13
MOTA	1759	0	GLU	. 30	67.493	67.685	7.943	1.00 14.31	B_13
ATOM	1760	N	VAL	31	68.451	65.777	8.665	1.00 19.26	B_13
ATOM	1762	CA	VAL	31	67.228	64.989	8.536	1.00 14.22	B_13
MOTA	1763	CB	VAL	31	67.472	63.487	8.716	1.00 17.05	B_13
ATOM	1764	CG1	VAL	31	66.144	62.749	8.791	1.00 28.55	
ATOM	1765		VAL	31	68.269	62.935			B_13
ATOM	1766						7.548	1.00 10.54	B_13
		Ç,	VAL	31	66.138	65.458	9.477	1.00 12.36	B_13
ATOM	1767	0	VAL	31	64.963	65.488	9.093	1.00 12.83	B_13
ATOM	1768	N·	GLU	32	66.530	65.805	10.703	1.00 20.46	B_13
ATOM	1770	CA	GLU	32	65.596	66.306	11.710	1.00 16.04	B_13
ATOM	1771	CB	GLU	32	66.269	66.365	13.094	1.00 14.71	B_13
ATOM	1772	CG	GLU	32	66.512	64.985	13.741	1.00 23.30	
ATOM	1773	CD	GLU	32	67.724				B_13
ATOM	1774		GLU			64.930	14.700	1.00 21.41	B_13
				32	68.229	63.823	15.003	1.00 15.79	B_13
ATOM	1775		GLU	32	68.183	65.985	15.157	1.00 13.71	B_13
MOTA	1776	С	GLU	32	65.125	67.697	11.257	1.00 27.19	B_13
ATOM	1777	0	GLU	32	63.951	68.042	11.383	1.00 19.82	B_13
ATOM	1778	N	LYS	33	66.021	68.461	10.636	1.00 12.52	B_13
MOTA	1780	CA	LYS	33	65.663	69.786	10.171	1.00 13.00	B_13
ATOM	1781	CB	LYS	33	66.889	70.592	9.762		
ATOM	1782	CG	LYS	33				1.00 22.63	B_13
ATOM	1783				66.581	72.054	9.560	1.00 18.24	B_13
		CD	LYS	33	65.604	72.545	10.630	1.00 29.21	B_13
ATOM	1784	CE	LYS	33	66.185	72.429	12.048	1.00 41.79	B_13
MOTA	1785	NZ	LYS	33	65.181	71.939	.13.054	1.00 20.17	B_13
ATOM	1789	С	LYS	33	64.698	69.686	9.023	1.00 10.62	. B_13
MOTA	1790	0	LYS	33	63.734	70.437	8.971	1.00 22.94	B_13
ATOM	1791	N	ALA	34	64.915	68.707	8.150		
ATOM	1793	CA	ALA	34	64.050			1.00 10.00	B_13
ATOM	1794	CB				68.475	7.000	1.00 11.94	B_13
			ALA	34	64.611	67.374	6.100	1.00 10.00	B_13
ATOM	1795	С	ALA	34	62.640	68.115	7.423	1.00 10.00	B_13
ATOM	1796	0	ALA	34	61.675	68.650	6.878	1.00 15.32	B_13
MOTA	1797	N	PHE	35	62.510	67.208	8.387	1.00 21.32	B_13
MOTA	1799	CA	PHE	35	61.187	66.789	8.852	1.00 18.32	B_13
MOTA	1800	CB	PHE	35	61.267	65.451			
ATOM	1801	CG	PHE				9.614	1.00 25.48	B_13
ATOM				35	61.620	64.260	8.735	1.00 14.33	B_13
	1802		PHE	35	61.149	64.171	7.427	1.00 17.91	B_13
ATOM	1803		PHE	35	62.436	63.240	9.217	1.00 18.05	B_13
ATOM	1804		PHE	35	61.486	63.086	6.610	1.00 18.49	B_13
ATOM	1805		PHE	35	62.778	62.158	8.413	1.00 15.01	B_13
MOTA	1806	CZ	PHE	35	62.301	62.081	7.103	1.00 10.00	
ATOM	1807	Č	PHE	35	60.428				B_13
ATOM	1808	ŏ				67.862	9.658	1.00 18.68	B_13
ATOM			PHE	35	59.202	67.971	9.556	1.00 17.05	B_13
	1809	N	LYS	36	61.160	68.664	10.425	1.00 16.30	B_13
MOTA	1811	CA	LYS	36	60.579	69.749	11.229	1.00 19.34	B_13
ATOM	1812	CB	LYS	36	61.676	70.420	12.052	1.00 24.61	B_13
MOTA	1813	CG	LYS	36	61.200	71.293	13.191	1.00 18.38	B_13
ATOM	1814	CD	LYS	36	62.408	71.795	13.962	1.00 19.34	B_13
MOTA	1815	CE	LYS	36	62.067	72.267	15.356	1.00 21.80	
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ATOM	1816	N2	LYS	36	63.299	72.615	16 110	1 00 05 56	
							16.118	1.00 27.76	B_13
ATOM	1320	С	LYS	36	59.924	70.770	10.301	1.00 10.19	B_13
MOTA	1821	0	LYS	36	58.788	71.183	10.528	1.00 14.95	· B_13
ATOM	1822	N	LYS	37	60.630	71.134	9.233	1.00 15.89	B_13
ATOM	1824	CA	LYS	37	60.126	72.076	8.230		
		-					0.230	1.00 19.95	B_13
ATOM	1825	CB	LYS	37	61.202	72.386	7.189	1.00 10.00	B_13
MOTA	1826	CG	LYS	37	62.209	73.439	7.569	1.00 13.18	B_13
ATOM	1827	CD	LYS	37	62.869	73.966	6.311	1.00 28.86	B_13
MOTA	1828	CE	LYS	37	61.825	74.460			
							5.281	1.00 31.44	B_13
MOTA	1829	N2	LYS	37	60.878	75.512	5.772	1.00 26.23	- B_13
ATOM	1833	С	LYS	37	58.939	71.482	7.472	1.00 25.64	B_13
MOTA	1834	0	LYS	37	57.968	72.177	7.161	1.00 24.39	2-13
ATOM	1835		ALA					1.00 24.35	B_13
		N		38	59.060	70.205	7.128	1.00 17.12	B_13
MOTA	1837	CA	ALA	38	58.031	69.493	6.381	1.00 16.06	B_13
ATOM	1838	CB	ALA	38	58.459	68.038	6.154	1.00 12.19	B_13
ATOM	1839	С	ALA	38	56.692	69.557	7.094	1.00 11.12	B_13
ATOM	1840	ŏ	ALA	38	55.648				D_13
						69.736	6.458	1.00 31.10	B_13
MOTA	1841	N	PHE	39 .	56.732	69.393	8.417	1.00 21.01	B_13
ATOM	1843	CA	PHE	39	55.540	69.446	9.257	1.00 10.85	B_13
ATOM	1844	CB	PHE	39	55.841	68.833	10.639	1.00 14.45	B_13
ATOM	1845	:CG	PHE	39	55.851	67.325	10.659		
								1.00 21.88	B_13
MOTA	1846		PHE	39	57.016	66.625	10.954	1.00 16.88	B_13
MOTA	1847	CD2	PHE	39	54.675	66.599	10.442	1'.00 22.14	B_13
ATOM	1848	CE1	PHE	39	57.010	65.223	11.037	1,00 17.95	B_13
ATOM	1849	CE2	PHE	39	54.655	65.190	10.522	1.00 17.22	B_13
ATOM	1850	CZ	PHE	39					
					55.823	64.503	10.823	1.00 13.51	B_13
MOTA.	1851	C	PHE	39	55.044	70.898	9.426	1.00 19.98	B_13
ATOM	1852	0	PHE	39	53.839	71.160	9.393	1.00 14.30	B_13
MOTA	1853	N	LYS	40	55.981	71.826	9.611	1.00 20.03	B_13
MOTA	1855	CA							P-13
			LYS	40	55.681	73.245	9.795	1.00 18.64	B_13
MOTA	1856	CB	LYS	40	56.989	74.011	10.020	1.00 19.28	B_13
MOTA	1857	CG	LYS	40	57.064	75.392	9.440	1.00 26.34	B_13
MOTA	1858	CD	LYS	40	58.288	76.093	9.974	1.00 18.46	B_13
ATOM	1859	CE	LYS	40	58.021				
		-				76.673	11.339	1.00 20.86	B_13
MOTA	1860	NZ	LYS	40	57.053	77.814	11.232	1.00 27.28	B_13
ATOM	1864	С	LYS	. 40	54.899	73.790	8.612	1.00 20.57	B_13
ATOM	1865	0	LYS	40	54.034	74.654	8.756	1.00 22.54	B_13
ATOM	1866	N	VAL	41	55.216				
						73.251		1.00 17.15	B_13
MOTA	1868	CA	VAL	41	54.565	73.576	6.184	1.00 19.19	B_13
ATOM	1869	CB	VAL	41	55.095	72.566	5.086	1.00 17.28	B_13
ATOM	1870	CG1	VAL	41	53.987	72.064	4.160	1.00 10.00	B_13
ATOM	1871		VAL	41	56.224				
						73.191	4.293	1.00 19.38	B_13
MOTA	1872	C	VAL	41	53.026	73.472	6.354	1.00 20.38	B_13
ATOM	1873	0	VAL	41	52.268	74.280	5.810	1.00 28.57	B_13
MOTA	1874	N	TRP	42	52.587	72.511	7.163	1.00 23.10	B_13
ATOM	1876	CA	TRP	42	51.166	72.265	7.403	1.00 19.29	
ATOM	1877	CB							B_13
			TRP	42	50.912	70.757	7.487	1.00 22.19	B_13
MOTA	1878	CG	TRP	. 42	51.437	70.007	6.313	1.00 19.32	B_13
ATOM	1879	CD2	TRP	42	50.836	69.909	5.015	1.00 31.02	B_13
MOTA	1880	CE2	TRP	42	51.659	69.067	4.238	1.00 22.49.	B_13
ATOM	1881	CE3	TRP	42	49.677		4.434		
ATOM						70.448		1.00 15.54	B_13
	1882		TRP	42	52.571	69.251	6.269	1.00 14.04	B_13
MOTA	1883		TRP	42	52.710	68.681	5.027	1.00 13.55	B_13
ATOM	1885	CZ2	TRP	42	51.360	. 68.752	2.912	1.00 18.87	B_13
ATOM	1886	CZ3		42	49.383	70.132	3.116	1.00 13.33	B_13
MOTA	1887		TRP	42					
					50.219	69.294	2.370	1.00 20.30	B_13
ATOM	1888	C	TRP	42	50.617	72.926	8.660	1.00 24.68	B_13
MOTA	1889	0	TRP	42	49.455	73.339	8.688	1.00 20.93	B_13
ATOM	1890	N	SER	43	51.432	72.987	9.710	1.00 20.63	B_13
MOTA	1892	CA	SER	43	51.007	73.601	10.968		2-13
ATOM	1893	_						1.00 22.47	B_13
		CB	SER	43	51.955	73.231	12.116	1.00 10.00	B_13
MOTA	1894	OG :	SER	43	53.265	73.716	11.891	1.00 33.50	B_13
MOTA	1896	С	SER	43	50.913	75.122	10.829	1.00 14.99	B_13
ATOM	1897	0	SER	43	50.224	75.784	11.595		
ATOM	1898							1.00 11.58	B_13
		N	ASP	44	51.613	75.667	9.843	1.00 26.20	B_13
MOTA	1900	CA	ASP	44	51.595	77.100	9.617	1.00 22.11	B_13
MOTA	1901	CB	ASP	44	52.620	77.485	8.549	1.00 11.09	B_13
ATOM	1902	CG	ASP	44	54.000	77.751	9.125		2-13
ATOM	1903					70.731		1.00 18.45	B_13
			ASP	44	54.903	78.114	8.347	1.00 17.67	B_13
MOTA	1904		ASP	44	54.195	77.602	10.345	1.00 21.44	B_13
MOTA	1905	C	ASP	44	50.216	77.575	9.190	1.00 32.83	B_13
MOTA	1906	0	ASP	44	49.795	78.677	9.549	1.00 34.78	B_13
ATOM	1907	N	VAL	45					
ATOM					49.508	76.735	8.439	1.00 31.40	B_13
	1909	CA	VAL	45	48.191	77.094	7.932	1.00 14.00	B_13
MOTA	1910	CB	VAL	45	48.121	76.872	6.401	1.00 15.73	B_13
MOTA	1911	CG1	VAL	45	49.123	77.755	5.707	1.00 19.37	B_13
MOTA	1912		VAL	45	48,407	75.409	6.055		
				4.5	-0.40/	, , , 403	0.055	1.00 10.00	B_13

ATOM	1913	С	VAL	45	47.054	76.333	8.575	1 00 10 41	
ATOM	1914	ŏ						1.00 18.43	B_13
			VAL	45	45.954	76.304	8.026	1.00 26.09	B_13
MOTA	1915	N	THR	46	47.295	75.754	9.747	1.00 18.49	B_13
ATOM	1917	CA	THR	46	46.262	74.963	10.408	1.00 21.92	B_13
ATOM	1918	CB	THR	46	46.222	73.529	9.751	1.00 27.61	B_13
ATOM	1919	OG1		46	44.876	73.047	9.661		
								1.00 28.78	B_13
ATOM	1921	CG2	THR	46	47.054	72.550	10.522	1.00 10.65	B_13
MOTA	1922	С	THR	46	46.505	74.931	11.932	1.00 18.41	B_13
ATOM	1923	0	THR	46	47.554	75.363	12.411	1.00 18.63	B_13
ATOM	1924	N	PRO	47	45.519	74.467	12.717		
								1.00 16.81	B_13
ATOM	1925	CD	PRO	47	44.113	74.209	12.348	1.00 32.80	B_13
MOTA	1926	CA	PRO	47	45.691.	74.407	14.169	1.00 13.66	B_13
ATOM	1927	CB	PRO	47	44.256	74.489	14.675	1.00 30.52	B_13
MOTA	1928	CG	PRO	47	43.519	73.692	13.638	1.00 29.25	B_13
MOTA	1929	Č	PRO	47	46.346	73.105	14.622		5_13
ATOM								1.00 28.40	B_13
	1930	0	PRO	47	46.037	72.597	15.705	1.00 29.19	B_13
ATOM	1931	N	LEU	48	47.220	72.547	13.784	1.00 27.10	B_13
ATOM	1933	CA	LEU	48	47.915	71.302	14.124	1.00 21.49	B_13
ATOM	1934	CB	LEU	48	48.087	70.418	12.885	1.00 16.21	B_13
ATOM	1935	CG	LEU	48	46.924				
						69.476	12.538	1.00 15.14	B_13
ATOM	1936		LEU	48	45.618	70.049	13.000	1.00 26.83	B_13
ATOM	1937		LEU	48	46.894	69.206	11.035	1.00 32.93	B_13
ATOM	1938	С	LEU	48	49.262	71.611	14.771	1.00 16.35	B_13
ATOM	1939	0	LEU	48	49.885	72.648	14.498	1.00 26.65	B_13
ATOM	1940	N	ASN	49	49.691	70.744	15.669	1.00 18.84	
ATOM	1942	CA	ASN	49					B_13
					50.956	70.940	16.354	1.00 25.67	B_13
ATOM	1943	CB	ASN	49	50.741	71.205	17.846	1.00 23.64	B_13
MOTA	1944	CG	ASN	49	49.734	72.301	18.100	1.00 23.64	B_13
MOTA	1945	OD1	ASN	49	48.895	72.192	18.989	1.00 33.47	B_13
ATOM.	1946		ASN	49	49.796	73.359	17.305	1.00 37.40	B_13
ATOM	1949	C	ASN	49					
					51.695	69.643	16.195	1.00 22.08	B_13
ATOM	1950	0	ASN	49	51.087	68.577	16.252	1.00 23.48	B_13
MOTA	1951	N	PHE	50	52.994	69.723	15.951	1.00 25.59	B_13
ATOM	1953	CA	PHE	50	53.762	68.510	15.806	1.00 19.57	B_13
ATOM	1954	CB	PHE	50	54.258	68.343	14.380	1.00 12.47	B_13
ATOM	1955	CG	PHE	50	53.161			1.00 12.47	
ATOM						68.024	13.432	1.00 14.47	B_13
	1956		PHE	. 50	52.665	68.989	12.581	1.00 17.81	B_13
MOTA	1957	CD2	PHE	50	52.566	66.770	13.445	1.00 14.44	B_13
ATOM	1958	CE1	PHE	50	51.585	68.705	11.754	1.00 23.43	B_13
ATOM	1959	CE2	PHE	50	51.488	66.482	12.624	1.00 20.62	B_13
MOTA	1960	CZ	PHE	50	50.999	67.447	11.781		
ATOM	1961	c	PHE	50				1.00 13.34	B_13
					.54.858	68.419	16.826	1.00 23.56	B_13
ATOM	1962	0	PHE	50	55.720	69.299	16.922	1.00 20.28	B_13
ATOM	1963	N	THR	51	54.728	67.387	17.651	1.00 26.45	B_13
MOTA	1965	CA	THR	51	55.650	67.090	18.725	1.00 29.37	B_13
ATOM	1966	CB	THR	51	54.851	66.834	20.024	1.00 28.17	B_13
ATOM	1967	0G1	THR	51	53.946	65.738	19.824		
ATOM	1969		THR	51				1.00 40.86	B_13
					54.032	68.078	20.393	1.00 25.37	B_13
ATOM	1970	C	THR	51	56.435	65.838	18.331	1.00 21.26	B_13
ATOM	1971	0	THR	51 .	55.849	64.849	17.882	1.00 17.45	B_13
ATOM	1972	N	ARG	52	57.755	65.889	18.477	1.00 15.17	B_13
ATOM	1974	CA	ARG	52	58.604	64.752	18.126	1.00 20.79	B_13
ATOM	1975	СВ	ARG	52			T		
ATOM	1976				59.868	65.241	17.429	1.00 20.81	B_13
		CG	ARG	52	.60.871	64.160	17.110	1.00 19.06	B_13
ATOM	1977	CD	ARG	52	62.208	64.808	16.880	1.00 22.17	B_13
MOTA	1978	NE	ARG	52	63.293	63.848	16.904	1.00 18.57	B_13
ATOM	1980	CZ	ARG	52	64.563	64.160	17.108	1.00 10.00	B_13
ATOM	1981		ARG	52	64.915	65.414	17.315	1.00 19.35	
ATOM	1984	NH2		52	CE 400			1.00 19.35	B_13
					65.488	63.214	17.039	1.00 35.90	B_13
ATOM	1987	С	ARG	52	58.995	63.903	19.328	1.00 22.29	B_13
MOTA	1988	0	ARG	52	59.326	64.433	20.387	1.00 24.98	B_13
ATOM	1989	N	LEU	53	59.013	62.586	19.140	1.00 19.90	B_13
ATOM	1991	CA	LEU	53	59.378				
ATOM	1992	CB	LEU			61.660	20.203	1.00 27.02	B_13
				53	58.279	60.625	20.434	1.00 16.80	B_13
MOTA	1993	CG	LEU	53	56.859	61.138	20.639	1.00 23.45	B_13
MOTA	1994		LEU	53	55.943	59.943	20.884	1.00 24.07	B_13
MOTA	1995	CD2	LEU	53	56.801	62.143	21.785	1.00 21.02	B_13
ATOM	1996	C	LEU	53	60.657	60.944	19.813	1.00 15.08	
ATOM	1997	ŏ	LEU	53					B_13
ATOM	1998	й			60.822	60.539	18.671	1.00 13.89	B_13
			HIS	54	61.532	60.750	20.792	1.00 19.96	B_13
ATOM	2000	CA	HIS	54	62.812	60.079	20.568	1.00 28.80	B_13
MOTA	2001	CB	HIS	54	63.848	60.604	21.569	1.00 19.40	B_13
ATOM	2002	CG	HIS	54	64.113	62.075	21.431	1.00 31.96	B_13
ATOM	2003	CD2		54	63.365	63.060	20.883	1.00 21.32	B_13
MOTA	2004	ND1		54	65.292				
MOTA	2006	CE1				62.662	21.835	1.00 33.94	B_13
ATOM				.54	65.260	63.949	21.539	1.00 18.64	B_13
N. OH	2007	NE2	นาว	54	64.103	64.218	20.960	1.00 19.56	B_13

MOTA	2009	C	HIS	54	62.695	58.555	20.647	1.00 13.04	B_13
ATOM	2010	ō	HIS	54	63.620	57.850	20.282	1.00 19.90	B_13
ATOM	2011	N	ASP	55	61.586	58.076	21.219	1.00 17.27	B_13
ATOM	2013	CA	ASP	55	61.303	56.648	21.366	1.00 25.79	B_13
	2014	CB	ASP	55	62.099	56.038	22.533		
ATOM									B_13
ATOM	2015	CG	ASP	55	63.443	55.428	22.076	1.00 29.64	B_13
MOTA	2016	OD1	ASP	55	63.517	54.906	20.942	1.00 33.28	B_13
MOTA	2017		ASP	55	64.437	55.469	22.831	1.00 31.99	B_13
ATOM	2018 '	С	ASP	55	59.807	56.460	21.567	1.00 24.99	B_13
MOTA	2019	0	ASP	55	59.079	57.445	21.677	1.00 21.06	B_13
MOTA	2020	N	GLY	56	59.358	55.207	21.559	1.00 22.90	B_13
MOTA	2022	CA	GLY	56	57.954	54.877	21.737	1.00 21.80	B_13
MOTA	2023	C	GLY	56	57.155	54.926	20.447	1.00 14.48	B_13
ATOM	2024	ō	GLY	56	57.720	55.108	19.379	1.00 19.38	B_13
ATOM	2025	N	ILE	57	55.841	54.742	20.545	1.00 11.78	B_13
	2027	CA	ILE	57		54.809		1.00 16.25	
MOTA					54.944		19.389		B_13
MOTA	202B	CB	ILE	57	53.737	53.804	19.510	1.00 22.94	B_13
MOTA	2029	CG2	ILE	57 .	52.442	54.417	18.955	1.00 24.79	B_13
MOTA	2030	CG1	ILE	57	54.025	52.505	18.744	1.00 25.63	B_13
ATOM	2031	CD1	ILE	57	53.586	52.520	17.240	1.00 17.48	B_13
ATOM	2032	C.	ILE	57	54.410	56.238	19.301	1.00 18.78	B_13
ATOM	2033	0	ILE	57	53.866	56.777	20.270	1.00 11.40	B_13
MOTA	2034	N	ALA	58	54.598	56.842	18.140	1.00 14.67	B_13
MOTA	2036	CA	ALA	58	54.139	58.200	17.857	1.00 17.04	B_13
ATOM	2037	CB	ALA	58	55.270	59.015	17.245	1.00 10.00	B_13
ATOM	2038	C	ALA	58	53.048	58.009	16.825	1.00 25.41	B_13
ATOM	2039	Ō	ALA	58	52.956	56.940	16.243	1.00 22.59	B_13
ATOM	2040	Ň	ASP	59	52.211	59.020	16.609	1.00 13.36	
									B_13
ATOM	2042	CA	ASP	59	51.156	58.927	15.606	1.00 24.67	B_13
MOTA	2043	CB	ASP	59	50.348	60.237	15.545	1.00 10.00	B_13
ATOM	2044	CG	ASP	59	49.743		16.899	1.00 12.93	B_13
MOTA	2045		ASP	59	49.922	61.788	17.327	1.00 32.89	B_13
MOTA	2046	QD2	ASP	59	49.076	59.793	17.541	1.00 21.52	B_13
MOTA	2047	С	ASP	59	51.784	58.653	14.242	1.00 11.46	B_13
MOTA	2048	0	ASP	59.	51.378	57.736	13.531	1.00 16.58	B_13.
MOTA	2049	N	ILE	60	52.791	59.445	13.899	1.00 24.90	B_13
MOTA	2051	CA	ILE	60	53.494	59.346	12.624	1.00 12.17	B_13
ATOM	2052	СВ	ILE	60	53.620	60.738		1.00 10.91	B_13
ATOM	2053		ILE	60	54.289	60.641	10.588		
ATOM	2054		ILE					1.00 10.70	B_13
				60	52.228	61.367	11.851	1.00 18.58	B_13
MOTA	2055		ILE	60	52.219	62.870	11.726	1.00 12.00	B_13
ATOM	2056	C	ILE	60	54.881	58.750	12.841	1.00 12.93	B_13
MOTA	2057	0	ILE	60 ·	55.788	59.392	13.365	1.00 16.39	B_13
ATOM	2058	N	MET	61		57.485	12.483	1.00 19.08	B_13
MOTA	2060	CA	MET	61	56.275	56.784	12.617	1.00 16.97	B_13
MOTA	2061	CB	MET	61	56.011	55.328	13.035	1.00 23.79	B_13
ATOM	2062	CG	MET	61	55.313	55.172	14.422	1.00 12.37	B_13
MOTA	2063	SD	MET	. 61	56.389	55.360	15.913	1.00 31.01	B_13
MOTA	2064	CE	MET	61	57.204	53.749	15.861	1.00 14.93	B_13
MOTA	2065	c	MET	61	56.995	56.888	11.265	1.00 12.72	B_13
ATOM	2066.	ŏ	MET	61	56.438	56.538	10.216	1.00 15.31	B_13
ATOM	2067	N	ILE	62					
					58.170	57.518	11.294	1.00 16.64	B_13 ·
MOTA	2069	CA	ILE	62	58.978	57.739	10.097	1.00 27.48	B_13
MOTA	2070	CB	ILE:		59.557	59.181	10.060	1.00 10.00	B_13
MOTA	2071		ILE	62	60.191	59.462	8.717	1.00 18.65	B_13
MOTA	2072		ILE	62	58.460	60.203	10.342	1.00 18.51	B_13
MOTA	2073	CD1	ILE	62	58.983	61.499	10.931	1.00 16.23	B_13
MOTA	2074	C	ILE	62	60.155	56.787	10.046	1.00 15.06	B_13
MOTA	2075	0	ILE	62·	60.873	56.606	11.033	1.00 10.73	B_13
MOTA	2076	N	SER	63	60.398	56.230	8.873	1.00 19.40	B_13
ATOM	2078	CA	SER	63	61.513	55.321	8.722	1.00 13.31	B_13
ATOM	2079	CB ·		63	61.111	53.888	9.123	1.00 17.28	B_13
ATOM	2080	OG	SER	63	59.985	53.435	8.391	1.00 13.66	B_13
MOTA	2082	C	SER	63	62.086	55.339	7.315	1.00 19.86	B_13
ATOM	2083	0	SER	63	61.441	55.766	6.347	1.00 20.93	B_13
MOTA	2084	N	PHE	64	63.338	54.914	7.237	1.00 17.78	B_13
MOTA	2086	CA	PHE	64	64.072	54.823	5.989	1.00 18.81	B_13
ATOM	2087	CB	PHE	64	65.409	55.553	6.105	1.00 16.50	B 13
MOTA	2088	CG	PHE	64	65.278	57.054	6.171	1.00 22.54	B_13
ATOM	2089		PHE	64	65.321	57.817	5.013	1.00 20.48	B_13
ATOM	2090		PHE	64	65.155	57.708	7.395	1.00 24.76	B_13
ATOM	2091		PHE	64	65.246	59.207	5.071	1.00 24.76	B_13
ATOM	2092	CE2		64	65.079	59.105			
MOTA							7.461	1.00 14.29	B_13
	2093	CZ	PHE	64	65.128	59.847	6.298	1.00 10.16	B_13
MOTA	2094	C	PHE	64	64.293	53.336	5.823	1.00 10.30	B_13
MOTA	2095	0	PHE	64	64.571	52.637	6.799	1.00 14.11	B_13
MOTA	2096	N	GLY	65	64.121	52.842	4.610	1.00 13.58	B_13

MOTA	2098	CA	GLY	65	64.306	51.426	4.392	1.00 14.88		B_13
MOTA	2099	С	GLY	65	64.400	51.117	2.922	1.00 14.95		B_13
MOTA	2100	0	GLY	65	64.047	51.947	2.088	1.00 12.61		B_13
MOTA	2101	N	ILE	66	64.860	49.922	2.587	1.00 10.00		B_13
ATOM	2103	CA	ILE	66	64.995	49.555	1.187	1.00 19.70		B_13
ATOM	2104	CB	ILE	66	66.483	49.344	0.791	1.00 18.92		B_13
ATOM	2105	CG2		66	67.301	50.628	1.073	1.00 10.00		B_13
ATOM	2106		ILE	66	67.078	48.178				
MOTA	2107		ILE	66			1.582	1.00 14.64		B_13
					68.381	47.662	1.004	1.00 17.53		B_13
MOTA	2108	C	ILE	66	64.195	48.296	0.900	1.00 15.98		B_13
MOTA	2109	0	ILE	66	63.877	47.543	1.806	1.00 20.10		B_13
MOTA	2110	N	LYS	67	63.773		-0.349	1.00 18.78		B_13
MOTA	2112	CA	LYS	67	63.019	46.980	-0.787	1.00 14.73		B_13
MOTA	2113	CB	LYS	67	63.986	45.827	-1.073	1.00 22.08		B_13
MOTA	2114	CG	LYS	67	65.107	46.142	-2.066	1.00 15.53		B_13
ATOM	2115	CD	LYS	67	64.591	46.325	-3.487	1.00 16.76		B_13
MOTA	2116	CE	LYS	67	65.573	45.763	-4.523	1.00 21.90		B_13
ATOM	2117	NZ	LYS	67	66.975	46.257	-4.394	1.00 28.03		B_13
ATOM	2121	С	LYS	67	61.945	46.548	0.218	1.00 16.24		B_13
MOTA	2122	0	LYS	67	61.136	47.360	0.649	1.00 10.25		B_13
ATOM	2123	N	GLU	68	61.968	45.293	0.630	1.00 10.00		B_13
ATOM	2125	CA	GLU	68	60.986	44.787	1.570	1.00 10.00		
MOTA	2126	СВ	GLU	68	61.004	43.257	1.505			B_13
ATOM	2127	CG	GLU	68	59.733			1.00 31.44		B_13
ATOM	2128	CD	GLU	68		42.550	1.696	1.00 27.13		B_13
ATOM	2129		GLU		58.723	42.720	0.524	1.00 12.88		B_13
ATOM				68	59.106	42.180	-0.613	1.00 14.05		B_13
	2130		GLU	68	57.681	43.274	0.753	1.00 38.61		B_13
ATOM	2131	C	GLU	68	61.402	45.292	2.954	1.00 32.89		B_13
ATOM	2132	0	GLU	68	62.541	45.099	3.390	1.00 19.77		B_13
MOTA	2133	N	HIS	69	60.467	45.918	3.659	1.00 15.43		B_13
MOTA	2135	CA	HIS	69	60.777	46.473	4.964	1.00 10.00		B_13
MOTA	2136	CB	HIS	69	61.173	47.928	4.802	1.00 15.60		B_13
MOTA	2137	CG	HIS	69	60.151	48.731	4.063	1.00 18.06		B_13
MOTA	2138	CD2	HIS	69	59.131	49.509	4.498	1.00 25.01		B_13
ATOM	2139	ND1	HIS	69	60.055	48.709	2.689	1.00 21.79		B_13
ATOM	2141		HIS	69	59.023	49.430	2.308	1.00 19.43		B_13
ATOM	2142		HIS	. 69	58.438	49.932	3.384	1.00 19.23		B_13
MOTA	2143	С	HIS	69	59.655	46.396	5.978	1.00 15.23		
ATOM	2144	ŏ	HIS	69	59.689	47.099	6.969	1.00 10.27		B_13
ATOM	2145	N	GLY	70	58.610	45.629	5.719	1.00 13.47		B_13
ATOM	2147	CA	GLY	70	57.567					B_13
ATOM	2148	C	GLY	70 70		45.520	6.720	1.00 15.93		B_13
MOTA	2149				56.147	45.784	6.287	1.00 13.13		B_13
ATOM		0	GLY		55.283	45.986	7.147	1.00 12.19		B_13
	2150	N	ASP	71	55.891	45.805	4.983	1.00 10.00		B_13
MOTA MOTA	2152	CA	ASP	71	54.540	46.030	4.480	1.00 17.84	٠.	B_13
	2153	CB	ASP	71	54.086	47.490	4.636	1.00 21.86		B_13
ATOM	2154	CG	ASP	71	54.946	48.480	3.881	1.00 13.38		B_13
ATOM	2155		ASP	71	54.896	49.644	4.291	1.00 10.00		B_13
MOTA	2156		ASP	71	55.633	48.135	2.897	1.00 10.00		B_13
ATOM	2157	C	ASP	71	54.313	45.557	3.064	1.00 27.18		B_13
MOTA	2158	0	ASP	71	55.221	45.068	2.416	1.00 16.61		B_13
MOTA	2159.	N	PHE	72	53.103	45.759	2.564	1.00 10.00		B_13
MOTA	2161	CA	PHE	72	52.788	45.317		1.00 19.60		B_13
MOTA	2162	CB	PHE	72	51.292	45.017	1.099	1.00 16.43		B_13
MOTA	2163	CG	PHE	72	50.849	43.779	1.851	1.00 27.69		B_13
MOTA	2164	CD1	PHE	72	51.399	42.532	1.561	1.00 22.33		B_13
ATOM	2165		PHE	72	49.848	43.855	2.823	1.00 27.58		B_13
ATOM	2166		PHE	72	50.955	41.383	2.225	1.00 22.03		B_13
MOTA	2167	CE2		72	49.403	42.709	3.486	1.00 21.82		B_13
ATOM	2168	CZ	PHE	72	49.957	41.473	3.184			
ATOM	2169	C	PHE	72	53.225		3.104	1.00 10.00		B_13
MOTA	2170	ŏ		72		46.313	0.130	1.00 18.56		B_13
ATOM	2171		PHE		52.840	46.190	-1.048	1.00 14.78		B_13
		N	TYR	73	54.079	47.260	0.513	1.00 10.93		B_13
MOTA	2173	CA	TYR	73	54.558	48.295	-0.416	1.00 13.87		B_13
ATOM	2174	CB	TYR	73	53.943	49.649	-0.048	1.00 22.69		B_13
ATOM	2175	CG	TYR	73	52.439	49.581	0.007	1.00 16.43		B_13
MOTA	2176		TYR	73	51.774	49.385	1.219	1.00 18.21		B_13
ATOM	2177		TYR	73	50.386	49.219	1.257	1.00 35.13		B_13
MOTA	2178	CD2		73	51.683	49.618	-1.165	1.00 15.77		B_13
MOTA	2179	CE2	TYR	73	50.300	49.456	-1.133	1.00 39.16		B_13
MOTA	2180	CZ	TYR	73	49.663	49.258	0.080	1.00 28.27		B_13
ATOM	2181	OH	TYR	73	48.301	49.122	0.106	1.00 33.06		B_13
MOTA	2183	C	TYR	73	56.088	48.349	-0.425	1.00 18.05		B_13
MOTA	2184	ō	TYR	73	56.721	49.339	0.003	1.00 10.00		B_13
MOTA	2185	N	PRO	74	56.702	47.287	~0.953	1.00 13.76		B_13
ATOM	2186	CD	PRO	74	56.063	46.221	-1.740	1.00 14.21		B_13
MOTA	2187	CA	PRO	74	58.158	47.183				
		~~	- 110	. **	20.130	41.400	-1.024	1.00 21.66		B_13

ATOM	2188	СВ	PRO	74	50 252	45,768	1 560	1.00 15.88	D 13
					58.353		-1.569		B_13
MOTA	2189	CG	PRO	74	57.225	45.653	-2.540	1.00 13.95	B_13
MOTA	2190	С	PRO	74	58.747	48.226	-1.959	1.00 27.68	B_13
ATOM	2191	0	PRO	74	58.173	48.526	-3.012	1.00 21.90	B_13
MOTA	2192	N	PHE	75	59.883	48.794	-1.562	1.00 20.91	B_13
ATOM	2194	CA	PHE	75	60.554	49.773	-2.395	1.00 15.84	B_13
MOTA	2195	CB	PHE	75	61.498	50.637	-1.548	1.00 11.67	B_13
MOTA	2196	CG	PHE	75	60.765	51.589	-0.641	1.00 14.42	B_13
MOTA	2197'	CD1		75	59.831	52.484	-1.162	1.00 16.56	B_13
MOTA	2198	CD2	PHE	75	60.976	51.574	0.726	1.00 10.00	B_13
ATOM	2199		PHE	75	59.119	53.345	-0.327	1.00 11.14	B_13
	2200								
MOTA		CE2	PHE	75	60.274	52.423	1.558	1.00 10.28	B_13
ATOM	2201	CZ	PHE	75	59.340	53.316	1.027	1.00 10.00	B_13
MOTA	2202	С	PHE	75	61.236	49.068	-3.573	1.00 14.23	B_13
ATOM	2203	ŏ	PHE	75	61.357	47.837	-3.582	1.00 18.64	B_13
									p_13
MOTA	2204	N	ASP	76	61.742	49.845	-4.526	1.00 12.83	B_13
MOTA	2206	CA	ASP	76	62.330	49.287	-5.740	1.00 20.69	B_13
MOTA	2207	CB	ASP	76.	61.394	49.644	-6.911	1.00 14.28	B_13
ATOM	2208								
		CG	ASP	76	61.212	51.144	-7.080	1.00 14.37	B_13
ATOM	2209	OD1	ASP	76	61.361	51.882	-6.095	1.00 22.32	B_13
ATOM	2210	OD2	ASP	76	60.941	51.597	-8.202	1.00 15.92	B_13
ATOM	2211	C	ASP	76	63.764	49.698	-6.104	1.00 19.31	B_13
									5-13
ATOM	2212	0	ASP	76	64.056	49.864	-7.278	1.00 18.67	B_13
ATOM	2213	N	GLY	77	64.653	49.902	-5.132	1,.00 10.00	B_13
ATOM	2215	CA	GLY	77	65.997	50.326	-5.501	11.00 10.00	B_13
ATOM	2216	C	GLY	77	65.989	51.790	-5.970	1.00 16.22	B_13
							-5.970		p_13
ATOM	221.7	0	GLY	7 7	64.967	52.487	-5.752	1.00 17.04	B_13
MOTA	2218	N	PRO	78	67.080	52.305	-6.589	1.00 12.53	B_13
ATOM	2219	CD	PRO	78	68.319	51.564	-6.856	1.00 12.24	B_13
									5-13
MOTA	2220	CA	PRO	78	67.207	53.691	-7.086	1.00 11.81	B_13
MOTA	2221	CB	PRO	78	68.546	53.678	-7.816	1.00 10.00	B_13
MOTA	2222	CG	PRO	78	69.316	52.693	-7.066	1.00 12.78	B_13
ATOM	2223	C	PRO	78	66.093	54.146	-8.027	1.00 10.00	B_13
MOTA	2224	0	PRO	78	65.621	53.381	-8.853	1.00 27.46	B_13
ATOM	2225	N	SER	79	65.641	55.386	-7.852	1.00 19.14	B_13
ATOM	2227	CA	SER	79	64.568	55.963	-8.669	1.00 10.00	B_13
ATOM	2228								
		СВ	SER	79	64.970		-10.148	1.00 20.11	B_13
ATOM	2229	OG	SER	79	63.982	56.723	-10.901	1.00 23.87	B_13
ATOM	2231	С	SER	79	63.231	55.215	• -8.507	1.00 31.68	B_13
ATOM	2232	Ō	SER	79	63.074	54.356	-7.606	1.00 26.48	B_13
MOTA	2233	N	GLY	80	62.250	55.589	-9.327	1.00 10.00	B_13
MOTA	2235	ÇA	GLY	80	60.940	54.969	-9.260	1.00 10.07	B_13
MOTA	2236	С	GLY	80	60.293	55.412	-7.968	1.00 30.72	B_13
ATOM	2237	ŏ	GLY	80	60.347				
							-7.643	1.00 20.65	B_13
MOTA	2238	N	LEU	81	59.779	54.452	-7.193	1.00 23.74	B_13
ATOM	2240	CA	LEU	81	59.135	54.752	-5.917	1.00 13.14	B_13
MOTA	2241	CB	LEU	81	58.661	53.481	-5.213	1.00 16.20	B_13
ATOM	2242		LEU						. D_13
		CG		81	57.393	52.775	-5.687	1.00 17.33	B_13
MOTA	2243	CD1	LEU	81	57.554	52.277	-7.096	1.00 28.67	B_13
MOTA	2244	CD2	LEU	81	57.103	51.617	-4.745	1.00 27.02	B_13
ATOM	2245	С	LEU	81	60.122	55.466	-5.019	1.00 14.51	B_13
MOTA	2246	0	LEU	81	61.264	55:016	-4.846	1.00 16.24	B_13
MOTA	2247	N	LEU	82	59.692	56.590	-4.470	1.00 11.33	B_13
MOTA	2249	CA	LEU	82	60.540	57.381	-3.594	1.00 17.52	B_13
ATOM	2250	СВ	LEU	82	60.442	58.861	-3.986	1.00 18.51	B_13
MOTA	2251	CG	LEU	82	61.355	59.499	-5.044	1.00 15.37	B_13
ATOM	2252	CD1	LEU	82	61.800	58.504	-6.104	1.00 17.05	B_13
MOTA	2253	CD2	LEU	82	60.639	60.744	-5.659	1.00 16.87	B_13.
MOTA	2254	C	LEU	82	60.172				
						57.203	-2.127	1.00 10.00	B_13
MOTA	2255	0	LEU	82	61.045	57.056	-1.275	1.00 19.90	B_13
ATOM	2256	N	ALA	83	58.876	57.201	-1.840	1.00 18.16	B_13
ATOM	2258	CA	ALA	83	58.378	57.077	-0.472		
								1.00 13.17	B_13
ATOM	2259	CB	ALA	83	58.762	58.322	0.327	1.00 10.00	B_13
MOTA	2260	C	ALA	83	56.846	56.925	-0.500	1.00 10.00	B_13
ATOM	2261	0	ALA	83	56.209	57.155		1.00 10.73	B_13
ATOM	2262	N	HIS	84	56.268				
				•		56.619		1.00 10.00	B_13
ATOM	2264	CA	HIS	84	54.811	56.472		1.00 23.81	B_13
MOTA	2265	CB	HIS	84	54.270	55.188		1.00 30.45	B_13
ATOM	2266	CG	HIS	84	54.848	53.925		1.00 17.68	
								1.00 17.08	B_13
MOTA	2267		HIS	84	54.856	53.415		1.00 10.00	B_13
ATOM	2268	ND1	HIS	84	55.525	53.025	-0.076	1.00 14.94	B_13
MOTA	2270		HIS	84	55.933	52.015		1.00 29.72	B_13
ATOM	2271		HIS						
				84	55.543	52.224		1.00 13.81	B_13
MOTA	2272	С	HIS	84	54.363	56.547	2.258	1.00 12.82	B_13
ATOM	2273	0	HIS	84	55.099	56.148	3.166	1.00 20.02	B_13
ATOM	2274	N	ALA	85	53.161	57 026	3.100		. 5-13
						57.076		1.00 28.38	B_13
MOTA	2276	CA	ALA	85	52.584	57.230	3.796	1.00 18.64	B_13

ATOM	2277	CB	ALA	85	52.638	58.705	4.223	1.00 13.89	B_13
ATOM	2278	C	ALA	85	51.138	56.716	3.837	1.00 10.00	B_13
ATOM	2279	ō	ALA	85	50.434	56.728	2.828	1.00 10.00	B_13
ATOM	2280	N	PHE	86	50.676		5.016	1.00 14.76	B_13
ATOM	2282	CA	PHE	86	49.316		5.143	1.00 17.96	
						55.811			B_13
ATOM	2283	СВ	PHE	86	49.286	54.592	6.084	1.00 15.86	B_13
ATOM	2284	CG	PHE	86	50.320	53.542	5.748	1.00 26.30	B_13
ATOM	2285	CD1	PHE	86	49.973	52.398	5.042	1.00 22.30	B_13
ATOM	2286	CD2	PHE	86	.51.654	53.730	6.090	1.00 27.63	B_13
MOTA	2287	CE1	PHE	86	50.938	51.472	4.681	1.00 27.85	B_13
ATOM	2288		PHE	86	52.620	52.810	5.731	1.00 13.97	B_13
ATOM .	2289	CZ	PHE	86	52.266	51.683	5.027		
								1.00 23.08	B_13
ATOM	2290	C	PHE	86	48.427	56.924	5.669	1.00 13.02	B_13
ATOM	2291	0	PHE	86	48.870	57.747	6.466	1.00 15.02	B_13
ATOM	2292	N	PRO	87	47.174	57.006	5.186	1.00 17.55	B_13
ATOM	2293	CD	PRO	87	46.565	56.165	4.146	1.00 10.17	B_13
ATOM	2294	CA	PRO	87	46.228	58.041	5.628	1.00 32.09	B_13
MOTA	2295	СВ	PRO	87	44.961	57.720	4.819	1.00 18.55	B_13
ATOM	2296	CG	PRO	87	45.115	56.277	4.481	1.00 18.86	B_13
ATOM	2297	C	PRO	87	45.995	57.955	7.139	1.00 25.18	
				-			7.752		B_13
ATOM	2298	0	PRO	87	46.284	56.919		1.00 18.18	B_13
ATOM	2299	N	PRO	88	45.462	59.032	7.760	1.00 11.49	B_13
ATOM	2300	CD	PRO	88	45.015	60.303	7.164	1.00 10.00	. В <u>_</u> 13
ATOM	2301	CA	PRO	88	45.217	59.034	9.202	1.00 19.03	B_13
MOTA	2302	CB	PRO	88	44.399	60.302	9.402	1.00 14.16	B_13
ATOM	2303	CG	PRO	88	44.939	61.196	8.357	1.00 16.39	B_13
ATOM	2304	C.	PRO	. 88	44.500	57.787	9.733	1.00 25.43	B_13
ATOM	2305	ō	PRO	88	43.670	57.165	9.044	1.00 15.90	B_13
ATOM	2306	N	GLY	89	44.865	57.422	10.955	1.00 26.28	B_13
ATOM	2308	CA	GLY	89	44.299	56.264	11.606	1.00 25.32	B_13
ATOM	2309	C	GLY	89	45.343	55.713	12.546	1.00 34.38	B_13
MOTA	2310	0	GLY	89	46.485	56.164	12.498	1.00 23.28	B_13
MOTA	2311	N	PRO	90	44.977	54.774	13.437	1.00 13.87	B_13
MOTA	2312	CD	PRO	90	43.613	54.259	13.631	1.00 16.36	B_13
ATOM	2313	CA	PRO	90	45.898	54.164	14.398	1.00 10.34	B_13
ATOM	2314	СВ	PRO	90	44.963	53.360	15.300	1.00 15.93	B_13
ATOM	2315	CG .	PRO	90 .	43.870	52.975	14.373	1.00 23.25	B_13
	2316								
MOTA		Ç	PRO	90	46.942	53.299	13.711	1.00 18.38	B_13
MOTA	2317	0	PRO	90	46.875	53.064	12.505	1.00 26.81	B_13
ATOM	2318	N	ASN	91	47.903	52.831	14.502	1.00 26.63	B_13
MOTA	2320	CA	ASN	91	49.022	52.010	14.033	1.00 21.91	B_13
ATOM	2321	CB	ASN	91	48.740	50.500	14.081	1.00 18.89	B_13
ATOM	2322	CG	ASN	91	47.437	50.117	13.448	1.00 22.49	B_13
MOTA	2323		ASN	91	47.335	50.017	12.237	1.00 29.37	B_13
MOTA	2324		ASN	91	46.438	49.858	14.273	1.00 28.01	B_13
ATOM	2327	C	ASN	91	49.656	52.438	12.721	1.00 20.07	D_13
ATOM	2328								B_13
		0	ASN	91	50.301	53.479	12.681	1.00 21.24	B_13
ATOM	2329	N	TYR	92	49.423	51.716	11.633	1.00 20.15	B_13
MOTA	2331	CA	TYR	92	50.052	52.081	10.367	1.00 18.70	B_13
MOTA	2332	CB	TYR	92	49.905	50.953	9.344	1.00 14.48	B_13
MOTA	2333	CG	TYR	92	50.906	49.821	9.567	1.00 24.41	B_13
MOTA	2334	CD1	TYR	92	52.266	50.003	9.287	1.00 27.39	B_13
ATOM	2335	CE1	TYR	92	53.198	48.979		1.00 18.14	B 13
ATOM	2336	CD2	TYR	92	50.499	48.571	10.044	1.00 28.07	B_13
ATOM	2337			92	51.427	47.529	10.230	1.00 36.50	B_13
ATOM	2338	CZ	TYR	92	52.778	47.741	9.940	1.00 43.64	B_13
ATOM	2339	OH	TYR	92					
					53.694	46.710	10.105	1.00 32.21	B_13
MOTA	2341	C	TYR	92	49.633	53.431	9.797	1.00 21.78	B_13
MOTA	2342	0	TYR	92	50.384	54.049	9.040	1.00 12.55	B_13
MOTA	2343	N	GLY	93	48.464	53.916	10.198	1.00 15.83	B_13
MOTA	2345	CA	GLY	93	48.015	55.216	9.732	1.00 11.69	B_13
MOTA	2346	С	GLY	93	48.971	56.326	10.134	1.00 18.60	B_13
ATOM	2347	0	GLY	93	49.561	56.300	11.227	1.00 22.00	B_13
ATOM	2348	N	GLY	94	49.205	57.258	9.216	1.00 10.27	B_13
ATOM	2350	CA	GLY	94	50.099	58.365	9.492	1.00 10.27	5 13
ATOM	2351						3.476		B_13
		Ç	GLY	94	51.567	58.061	9.234	1.00 15.54	B_13
MOTA	2352	0	GLY	94	52.334	58.967	8.938	1.00 17.55	B_13
ATOM	2353	N	ASP	95	51.977	56.801	9.351	1.00 17.69	B_13
MOTA	2355	CA	ASP	95	53.386	56.457	9.134	1.00 19.67	B_13
MOTA	2356	CB	ASP	95	53.637	54.986	9.444	1.00 15.96	B_13
MOTA	2357	CG	ASP	95	53.346	54.634	10.900	1.00 25.37	B_13
ATOM	2358		ASP	95	53.627	53.484	11.297	1.00 16.05	B_13
ATOM	2359		ASP	95	52.835	55.488	11.656	1.00 14.66	B_13
ATOM	2360	C	ASP	95 95	53.896				
ATOM	2361				53.050	56.808	7.733	1.00 17.15	B_13
		0	ASP	95 96	53.162	56.711	6.746	1.00 19.09	B_13
ATOM	2362	N	ALA	96	55.166	57.198	7.662	1.00 18.71	B_13
MOTA	2364	CA	ALA	96	55.803	57.581	6.400	1.00 19.97	B_13

ATOM	2365	СВ	ALA	96	56.098	E0 00E	6.379	1 00 00 61	- 13
						59.095		1.00 22.61	B_13
MOTA	2366	С	ALA	96	57.088	56.784	6.204	1.00 25.63	B_13
MOTA	2367	0	ALA	96	57.948	56.724	. 7.095	1.00 12.54	B_13
ATOM	2368	N	HIS	.97	57.211	56.166	5.035	1.00 13.27	B_13
ATOM	2370	CA	HIS	97	58.375	55.357	4.730	1.00 25.28	B_13
ATOM	2371		HIS	97	57.955	53.905	4.464		
							4.404	1.00 10.00	B_13
MOTA	2372	CG	HIS	97	57.264	53.257	5.624	1.00 12.02	B_13
ATOM	2373	CD2	HIS	97	57.214	53.603	6.929	1.00 10.00	B_13
MOTA	2374	ND1	HIS	97	56.516	52.104	5.499	1.00 12.91	B_13
ATOM	2375	CE1		97	56.038	51.770	6.688	1.00 10.00	B_13
MOTA	2376	NE2		97	56.445	52.664	7.571	1.00 10.64	B_13
MOTA	2378	С	HIS	97	59.069	55.959	3.520	1.00 13.82	B_13
MOTA	2379	0	HIS	97	58.415	56.273	2.517	1.00 12.27	B_13
MOTA	2380	N	PHE	98	60.379	56.154	3.647	1.00 10.67	B_13
MOTA	2382	CA	PHE	98	61.224	56.718	2.595	1.00 15.67	B_13
					61.970				
ATOM	2383	СВ	PHE	98		57.938	3.156	1.00 10.76	B_13
ATOM	2384	CG	PHE	98	61.055	59.025	3.627	1.00 17.93	B_13
ATOM	2385	CD1	PHE	98	60.730	60.082	2.786	1.00 18.92	B_13
ATOM	2386	CD2	PHE	98	60.476	58.974	4.893	1.00 14.14	B_13
ATOM	2387		PHE	98	59.833	61.066	3.201	1.00 22.42	B_13
ATOM	2388	CE2		98	59.574	59.962	5.315	1.00 10.00	B_13
ATOM	2389	CZ	PHE	98	59.257	61.002	4.469	1,00 10.00	B_13
MOTA	2390	C	PHE	98	62.218	55.669	2.064	1.00 26.64	B_13
MOTA	2391	0	PHE	98	62.882	54.969	2.851	1,00 13.27	B_13
ATOM	2392	N	ASP	99	62.331	55.577	0.738	1.00 12.24	B_13
ATOM	2394	CA	ASP	99	63.229	54.612	0.102	1.00 10.00	B_13
ATOM	2395	CB	ASP	99	62.884	54.471			
							-1.385	1.00 10.00	B_13
MOTA	2396	CG	ASP	99	63.615	53.311	-2.067	1.00 22.86	B_13
ATOM	2397	OD1		99	63.170	52.890	-3.160	1.00 11.60	B_13
ATOM	2398	OD2	ASP	99	64.624	52.806	-1.528	1.00 21.20	B_13
MOTA	2399	С	ASP	99	64.677	55.046		1.00 12.66	B_13
ATOM	2400	0	ASP	99	65.121	56.010	-0.366	1.00 18.37	B 13
ATOM	2401	N	ASP	100	65.439	54.289	1.046	1.00 12.86	B_13
ATOM	2403	CA	ASP	100					
					66.833	54.642	1.260	1.00 14.46	B_13
MOTA	2404	CB	ASP	100	67.308	54.271	2.660	1.00 17.70	B_13
MOTA	2405	CG	ASP	100	68.006	55.437	3.358	1.00 16.15	·B_13
ATOM	2406	OD1	ASP	100	68.091	55.447	4.602	1.00 15.74	B_13
MOTA	2407	OD2	ASP	100	68.470	56.354	2.655	1.00 27.08	B_13
ATOM	2408	С	ASP	100	67.793	54.171	0.179	1.00 13.66	B_13
ATOM	2409	Ō	ASP	100	68.961	53.932	0.416	1.00 19.54	B_13
ATOM	2410	N	ASP	101	67.254	53.954	-1.010	1.00 12.83	B_13
ATOM	2412	CA	ASP	101	68.074	53.590	-2.164		
								1.00 10.00	B_13
ATOM	2413	CB	ASP	101	67.471	52.413	-2.933	1.00 10.00	B_13
MOTA	2414	CG	ASP	101	67.997	51.065	-2.449	1.00 16.87	B_13
MOTA	2415		ASP	101	67:232	50.089	-2.458	1.00 19.89	B_13
ATOM	2416	OD2	ASP	101	69.184	50.968	-2.066	1.00 18.51	B_13
MOTA	2417	С	ASP	101	68.108	54.858	-3.029	1.00 26.72	B_13
ATOM	2418	0	ASP	101	68.602	54.853	-4.172	1.00 12.11	B_13
ATOM	2419	N	GLU	102	67.500	55.922	-2.496	1.00 13.76	B_13
MOTA	2421	CA	GLU	102	67.462	57.217	-3.161	1.00 12.54	B_13
ATOM	2422.	CB	GLU	102					
					66.135	57.958	-2.916	1.00 13.01	B_13
MOTA	2423	CG	GLU	102	64.873	57.257	-3.381	1.00 15.50	B_13
ATOM	2424	CD	GLU	102	64.973	56.707	-4.791	1.00 29.02	B_13
MOTA	2425		GLU	102	65.640	57.307	-5.665	1.00 12.78	B_13
ATOM	2426	OE2	GLU	102	64.399	55.635	-5.021	1.00 12.36	B_13
ATOM	2427	С	GLU	102	68.544	58.040	-2.505	1.00 14.96	B_13
ATOM	2428	0	GLU	102	68.939	57.760	-1.371	1.00 10.00	B_13
ATOM	2429	N	THR	103	69.030	59.039	-3.228	1.00 19.38	B_13
ATOM	2431	CA							P_T3
			THR	103	70.021	59.957	-2.693	1.00 16.49	B_13
ATOM	2432	CB	THR	103	70.973	60.490	-3.801	1.00 19.31	B_13
ATOM	2433		THR	103	71.661	59.384	-4.399	1.00 25.44	B_13
ATOM	2435	CG2	THR	103	72.006	61.462	-3.212	1.00 10.75	B_13
MOTA	2436	С	THR	103	69.180	61.104	-2.141	1.00 12.91	B_13
MOTA	2437	0	THR	103	68.414	61.727	-2.867	1.00 13.59	B_13
ATOM	2438	N	TRP	104	69.252	61.322	-0.842		
ATOM	2440	CA						1.00 20.60	B_13
			TRP	104	68.497	62.388	-0.237	1.00 13.62	B_13
ATOM	2441	CB	TRP	104	67.852	61.902	1.063	1.00 22.66	B_13
MOTA	2442	CG	TRP	104	66.837	60.808	0.870	1.00 22.99	B_13
ATOM	2443		TRP	104	65.505	60.953	0.347	1.00 27.35	B_13
ATOM	2444	CE2	TRP	104	64.936	59.654	0.287	1.00 12.61	B_13
MOTA	2445		TRP	104	64.741	62.054	-0.079	1.00 11.89	B_13
ATOM	2446		TRP	104	67.013	59.473	1.108	1.00 17.89	B_13
ATOM	2447		TRP	104	65.876	58.775			D_13
ATOM	2449		TRP				0.755	1.00 14.24	B_13
				104	63.632	59.429	-0.186	1.00 10.00	B_13
MOTA	2450		TRP	104	63.445	61.832	-0.549	1.00 22.21	B_13
ATOM	2451		TRP	104	62.904	60.527	-0.598	1.00 23.31	B_13
MOTA	2452	С	TRP	104	69.416	63.570	0.033	1.00 16.43	B_13

ATOM	2453	0 '	TRP	104	70.520	63.380	0.526	1.00 11.13	B_13
ATOM	2454		THR	105	68.960	64.775	-0.322	1.00 19.48	B_13
ATOM	2456		THR	105	69.716	66.015	-0.097	1.00 10.40	B_13
MOTA	2457	CB '	THR	105	70.153	66.749	-1.398	1.00 10.00	B_13
ATOM	2458	OG1 '	THR	105	69.305	66.401	-2.501	1.00 18.53	B_13
ATOM	2460	CG2 '	THR	105	71.596	66.484	-1.709	1.00 34.62	B_13
ATOM	2461		THR	105	68.904	67.062	0.641	1.00 20.82	B_13
									5-13
MOTA	2462		THR	105	67.686	66.952	0.768	1.00 15.93	B_13
ATOM	2463	N :	SER	106	69.621	68.073	1.125	1.00 38.37	B_13
MOTA	2465	CA :	SER	106	69.029	69.222	1.791	1.00 20.77	B_13
MOTA	2466		SER	106	69.979	69.778	2.862	1.00 17.95	B_13
									5-13
ATOM	2467		SER	106	70.281	68.825	3.864	1.00 29.88	B_13
MOTA	2469	C	SER	106	68.889	70.245	0.657	1.00 19.23	B_13
MOTA	2470	0	SER	106	68.202	71.260	0.782	1.00 21.34	B_13
MOTA	2471	N :	SER	107	69.577	69.981	-0.450	1.00 18.73	B_13
ATOM	2473		SER	107	69.533	70.884	-1.592	1.00 20.92	B_13
	2474			107	_		-1.927		
ATOM			SER		70.945	71.380		1.00 19.84	B_13
MOTA	2475		SER	107	71.556	71.957	-0.788	1.00 27.31	B_13
ATOM	2477	C .	SER	107	68.848	70.284	-2.828	1.00 18.68	B_13
MOTA	2478	0	SER	107	67.660	69.953	-2.771	1.00 21.51	B_13
ATOM	2479		SER	108	69.623	70.038	-3.888	1.00 18.53	B_13
ATOM	2481		SER	108	69.091	69.544		1.00 16.33	
							-5.152		B_13
ATOM	2482		SER	108	69.285	70.632	-6.205	1.00 29.10	B_13
MOTA	2483	OG .	SER	108	70.665	70.969	-6.271	1.00 21.47	B_13
MOTA	2485	C .	SER	108	69.645	68.260	-5.745	1.00 17.68	B_13
ATOM	2486		SER	108	68.964	67.618	-6.541	1.00 19.67	B_13
ATOM	2487			109	70.895	67.919	-5.448	1.00 11.70	B_13
MOTA	2489		LYS	109	71.468	66.721	-6.047	1.00 10.00	B_13
MOTA	2490	CB	LYS	109	72.994	66.748	-5.989	1.00 18.86	B_13
ATOM	2491	CG	LYS	109	73.657	65.833	-7.013	1.00 16.33	B_13
ATOM	2492		LYS	109	75.143	65.726	-6.740	1.00 11.58	B_13
ATOM	2493		LYS	109					
					75.787	64.655	-7.606	1.00 27.43	B_13
MOTA	2494		LYS	109	77.218	64.492	-7.251	1.00 35.03	B_13
MOTA	2498	C	LYS	109	70.916	65.428	-5.444	1.00 29.39	B_13
MOTA	2499	0	LYS	109	71.432	64.905	-4.449	1.00 29.95	B_13
ATOM	2500		GLY	110	69.852	64.922	-6.055	1.00 14.77	B_13
ATOM	2502		GLY	110	69.227	63.705	-5.576	1.00 24.08	B_13
	2503								
MOTA			GLY	110	67.793	64.105	-5.342	1.00 20.25	B_13
ATOM	2504		GLY	110	67.203	64.737	-6.198	1.00 16.21	B_13
ATOM	2505	N	TYR	111	67.248	63.772	-4.182	1.00 10.00	B_13
MOTA	2507	CA	TYR	111	65.879	64.130	-3.845	1.00 24.52	B_13
ATOM	2508	CB	TYR	111	65.030	62.868	-3.688	1.00 22.46	B_13
MOTA	2509		TYR	111	64.676	62.244	-4.999	1.00 10.83	B_13
MOTA	2510	CD1		111					
					65.380	61.155	-5.483	1.00 25.38	B_13
MOTA	2511		TYR	111	65.068	60.592	-6.720	1.00 18.68	B_13
MOTA	2512		TYR	111	63.646	62.769	-5.776	1.00 16.02	B_13
MOTA	2513	CE2	TYR	111	63.328	62.223	-7.013	1.00 31.72	B_13
ATOM	2514	CZ	TYR	111	64.041	61.131	-7.473	1.00 23.68	B_13
MOTA	2515		TYR	111	63.711	60.550	-8.666	1.00 20.96	B_13
MOTA	2517		TYR	111	65.856	64.944	-2.553	1.00 22.83	B_13
MOTA	2518		TYR	111	66.410	64.518	-1.538	1.00 11.66	B_13
MOTA	2519	N	ASN	112	65.278	66.140	-2.611	1.00 17.47	B_13
ATOM	2521	CA	ASN	112	65.180	67.006	-1.431	1.00 15.77	B_13
MOTA	2522	CB	ASN	112	64 658	68.401	-1.817	1.00 15.93	B_13
ATOM	2523		ASN	112	64.694	69.384	-0.657	1.00 10.00	B_13
ATOM	2524	OD1		112	63.757	69.465	0.132	1.00 15.33	B_13
ATOM	2525	ND2		112	65.754	70.180	-0.586	1.00 13.70	B_13
ATOM	2528	С	ASN	112	64.214	66.329	-0.472	1.00 17.73	B_13
ATOM	2529	0	ASN	112	63.007	66.243	-0.737	1.00 12.61	B_13
ATOM	2530		LEU	113	64.755	65.830	0.630	1.00 16.28	B_13
ATOM	2532		LEU	113	63.962				D_13
						65.121	1.619	1.00 15.93	B_13
MOTA	2533		LEU	113	64.841	64.703	2.804	1.00 11.93	B_13
ATOM	2534	CG	LEU	113	64.719	63.352	3.521	1.00 17.15	B_13
ATOM	2535	CD1	LEU	113	65.002	63.640	4.987	1.00 10.00	B_13
ATOM	2536	CD2	LEU	113	63.370	62.667	3.362	1.00 16.08	B 13
MOTA	2537		LEU	113	62.802	65.994	2.085	1.00 14.61	B_13 B_13
ATOM	2538								5-13
			LEU	113	61.673	65:528	2.161	1.00 17.98	B_13
ATOM	2539		PHE	114	63.073	67.267	2.346	1.00 16.81	B_13
MOTA	2541	CA	PHE	114	62.056	68.212	2.791	1.00 15.65	B_13
MOTA	2542	CB	PHE	114	62.638	69.630	2.888	1.00 22.16	B_13
ATOM	2543	CG	PHE	114	61.596	70.714	2.882	1.00 12.27	B_13
MOTA	2544	CD1		114	60.804	70.952	4.004	1.00 19.93	B_13
ATOM	2545	CD2		114	61.378	71.470	1.746		D_13
MOTA								1.00 13.56	B_13
	2546	CE1		114	59.813	71.932	3.984	1.00 17.08	B_13
ATOM	2547	CE2		114	60.398	72.441	1.726	1.00 13.79	B_13
MOTA	2548	CZ	PHE	114	59.615	72.666	2.848	1.00 10.70	B_13
ATOM	2549	C	PHE	114	60.860	68,220	1.842	1.00 19.55	B_13
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		1							
ATOM	2550	0	PHE	114	59.714	68.156	2.285	1.00 15.97	B_13
						68.309			
atcm	2551		LEU	115	61.135		0.543	1.00 13.35	B_13
MOTA	2553	CA	LEU	115	60.096	68.323	-0.485	1.00 17.91	B_13
MOTA	2554	CB	LEU	115	60.741	68.462	-1.868	1.00 24.65	B_13
ATOM	2555	CG	LEU	115	60.501	69.739	-2.679	1.00 22.70	B_13
ATOM	2556	CD1		115	61.033	70.939	-1.943	1.00 17.98	B_13
MOTA	2557	CD2	LEU	115	61.148	69.624	-4.048	1.00 28.50	B_13
MOTA	2558	С	LEU	115	59.235	67.042	-0.443	1.00 21.61	B_13
	2559'	ō	LEU	115	58.002	67.093	-0.344	1.00 13.99	B_13
MOTA									
ATOM	2560	N	VAL	116	59.898	65.895	-0.511	1.00 11.14	B_13
MOTA	2562	CA	VAL	116	59.199	64.616	-0.482	1.00 22.27	B_13
ATOM	2563	СВ	VAL	116	60.163	63.421	-0.772	1.00 17.40	B_13
									5-13
MOTA	2564	CG1	VAL	116	59.437	62.086	-0.629	1.00 23.09	B_13
ATOM	2565	CG2	VAL	116	60.741	63.534	-2.169	1.00 12.16	B_13
ATOM	2566	С	VAL	116	58.502	64.414	0.864	1.00 10.00	B_13
ATOM						63.950			
	2567	0	VAL	116	57.368		0.911	1.00 16.18	B_13
ATOM	2568	N	ALA	117	59.153	64.803	1.954	1.00 10.00	B_13
ATOM	2570	CA	ALA	117 ·	58.585	64.640	3.297	1.00 19.50	B_13
MOTA	2571	СВ	ALA	117	59.608	64.995	4.352	1.00 11.81	B_13
MOTA	2572	С	ALA	117		65.455	3.505	1.00 30.87	B_13
ATOM	2573	0	ALA	117	56.327	64.955	4.053	1.00 10.00	B_13
MOTA	2574	N	ALA	118	57.322	66.714	3.087	1.00 24.62	B_13
ATOM	2576	CA	ALA	118	56.140	67.553	3.222	1.00 20.76	B_13
MOTA	2577	CB	ALA	118	56.407	68.917	2.654	1,00 16.19	B_13
ATOM	2578	С	ALA	118	54.968	66.894	2.485	1.00 20.54	B_13
MOTA	2579	. 0	ALA	118	53.843	66.889	2.981	1.00 22.12	B_13
ATOM	2580		HIS	119	55.255	66.315	1.321	1.00 10.00	B_13
		N							
MOTA	2582	CA	HIS	119	54.259	65.647	0.489	1.00 17.27	B_13
MOTA	2583	CB	HIS	119	54.909	65.263	-0.860	1.00 11.16	B_13
MOTA	2584	CG	HIS	119	54.006	64.530	-1.813	1.00 26.59	, B_13
MOTA	2585		HIS	119	53.377	63.335	-1.706	1.00 16.63	B_13
MOTA	2586	ND1	HIS	119	53.723	64.995	-3.085	1.00 12.44	B_13
ATOM	2588	CE1	HIS	119	52.961	64.124	-3.715	1.00 14.58	B_13
ATOM	2589		HIS	119	52.734	63.101	-2.901	1.00 26.44	B_13
					52.734				
MOTA	2590	С	HIS	119	53.722	64.419	1.227	1.00 17.00	B_13
ATOM	2591	0	HIS	119	52.510	64.218	1.331	1.00 17.01	B_13
ATOM	2592	N	GLU	120	54.626	63.607	1.751	1.00 10.31	B_13
MOTA	2594	CA	GLU	120	54.231	62.401	2.466	1.00 12.32	B_13
MOTA	2595	CB	GLU	120	55.463	61.627	2.961	1.00 15.34	B_13
MOTA	2596	CG	GLU	120	56.354	61.078	1.848	1.00 10.00	. B_13
MOTA	2597	CD	GLU	120	55.574	60.260	0.867	1.00 18.64	B_13
MOTA	2598		GLU	120	55.598	60.565	-0.348	1.00 18.08	B_13
ATOM	2599	OE2	GLU	120	54.920	59.308	1.320	1.00 14.49	B_13
ATOM	2600	С	GLU	120	53.347	62.777	3.635	1.00 12.41	B_13
MOTA	2601	o.	GLU	120	52.323	62.130	3.888	1.00 26.62	B_13
							3.000		D_13
MOTA	2602	N	PHE	121	53.750	63.813	4.359	1.00 10.29	B_13
MOTA	2604	CA	PHE	121	52.993	64.286	5.506	1.00 14.37	B_13
ATOM	2605	CB	PHE	121	53.780	65.344	6.270	1.00 20.10	B_13
ATOM	2606	CG	PHE	121	55.057	64.827	6.852	1.00 24.55	B_13
MOTA	2607		PHE	121	56.037	65.700	7.292	1.00 10.00	B_13
ATOM	2608	CD2	PHE	121	55.292	63.454	6.936	1.00 23.62	B_13
MOTA	2609		PHE	121	57.247	65:212	7.813	1.00 18.59	B_13
ATOM		022							5-13
	2610		PHE	121	56.488	62.954	7.448	1.00 15.21	B_13
MOTA	2611	CZ	PHE	121	57.472	63.834	7.888	1.00 25.40	B_13
ATOM	2612	С	PHE	121	51.607	64.791	5.110	1.00 16.63	B_13
MOTA	2613	0	PHE		50.676	64.760	5.921	1.00 26.80	B_13
MOTA	2614	N	GLY	122	51.471	65.238	3.864	1.00 11.98	B_13
ATOM	2616	CA	GLY		50.175	65.664	3.380	1.00 12.95	B_13
ATOM	2617	С	GLY	122	49.284	64.427	3.381	1.00 13.71	B_13
MOTA	2618	0	GLY		48.113	64.483	3.753	1.00 13.74	B_13
ATOM	2619								5_13
		N	HIS		49.859	63.284	3.016	1.00 16.90	B_13
ATOM	2621	CA	HIS	123	49.126	62.009	3.008	1.00 24.90	B_13
MOTA	2622	CB	HIS	123	49.918	60.918	2.279	1.00 18.28	B_13
ATOM	2623	CG	HIS		49.945	61.084	0.794	1.00 21.62	B_13
									P_13
MOTA	2624		HIS		50.889	60.764	-0.119	1.00 13.04	B_13
MOTA	2625	ND1	HIS	. 123	48.887	61.618	0.093	1.00 17.18	B_13
MOTA	2627		HIS		49.176	61.621	-1.195	1.00 16.02	B_13
				122					5-13
ATOM	2628		HIS		50.386	61.108	-1.353	1.00 15.58	B_13
ATOM	2629	С	HIS		48.864	61.562	4.446	1.00 19.74	B_13
MOTA	2630	0	HIS		47.744	61.179	4.785	1.00 15.41	B_13
MOTA	2631	Ň	SER		49.904				
						61.627	5.284	1.00 13.32	B_13
MOTA	2633	CA	SER		49.813	61.270	6.695	1.00 27.50	B_13
MOTA	2634	CB	SER	124	51.131	61.582	7.425	1.00 18.63	B_13
ATOM	2635	ŌĞ	SER		52.221	60.837	6.925	1.00 13.32	B_13
MOTA	2637	C							B_13
			SER		48.703	62.102	7.335	1.00 13.76	
MOTA	2638	0	SER		48.061	61.677	8.306	1.00 20.65	B_13
MOTA	2639	N	LEU	125	48.481	63.300	6.814	1.00 13.33	B_13

ATOM	2641	CA	LEU	125	47.439	64.133	7.387	1.00 24.62	B_13
ATOM	2642								
		CB	LEU	125	47.893	65.592	7.436	1.00 20.76	B_13
ATOM	2643	CG	LEU	125	49.076	65.849	8.383	1.00 14.66	B_13
ATOM	2644	CD1	LEU	125	49.739		8.064	1.00 16.16	B_13
	2645								
MOTA			LEU	125	48.610	65.811	9.822	1.00 16.44	B_13
MOTA	2646	Ç	LEU	125	46.058	63.966	6.724	1.00 24.77	B_13
MOTA	2647	0	LEU	125	45.066	64.528	7.195	1.00 15.63	B_13
ATOM	2648	N	GLY	126	45.988	63.192	5.644	1.00 17.38	B_13
ATOM	2650	CA	GLY	126	44.700	62.968	5.001	1.00 22.41	B_13
MOTA	2651	С	GLY	126	44.453	63.487	3.603	1.00 13.20	B_13
ATOM	2652	0	GLY	126	43.349	63.366	3.096	1.00 20.86	B_13
ATOM	2653								
		N	LEU	127	45.452	64.079	2.972	1.00 12.39	B_13
MOTA	2655	CA	LEU	127	45.267	64.592	1.617	1.00 11.56	B_13
ATOM	2656	СВ	LEU	127	45.965		1.467		
						65.947		1.00 19.19	B_13
MOTA	2657	CG	LEU	127	45.300	67.206	2.039	1.00 14.42	B_13
MOTA	2658	CD1	LEU	127	44.875	67.030	3.496	1.00 32.31	B_13
	2659								
ATOM			LEU	127	46.288	68.374	1.912	1.00 25.45	B_13
ATOM	2660	С	LEU	127	45.770	63.619	0.550	1.00 26.54	B_13
ATOM	2661	0	LEU	127					
					46.920	63.156	0.601	1.00 18.76	B_13
ATOM	2662	N	ASP	128	44.908	63.285	-0.407	1.00 28.54	B_13
ATOM	2664	CA	ASP	128	45.292	62.376	-1.480	1.00 10.89	B_13
ATOM	2665	CB	ASP	128	44.059	61.762	-2.136	1.00 15.95	B_13
ATOM	2666	CG	ASP	128	44.351	60.430	-2.794	1.00 23.44	B_`13
ATOM	2667	OD1	ASP	128	43.377	59.735	-3.164	1.00 41.43	
									B_13
MOTA	2668	OD2	ASP	128	45.541	60.059	-2.918	1.00 18.12	B_13
MOTA	2669	С	ASP	128	46.060	63.203	-2.502	1.00 25.34	B_13
MOTA	2670	0	ASP	128	46.489	64.308	-2.213	1.00 16.36	B_13
MOTA	2671	N	HIS	129	46.283	62.645	-3.682	1.00 17.53	B_13
MOTA	2673	CA	HIS	129	47.001		-4.718		
						63.366		1.00 26.87	B_13
ATOM	2674	CB	HIS	.129	47.495	62.398	-5.794	1.00 10.00	B 13
ATOM	2675	CG	HIS	129	48.729	61.645	-5.400	1.00 19.64	B_13
		_							
MOTA	2676		HIS	129	49.769	61.996	-4.609	1.00 19.96	B_13
ATOM	2677	ND1	HIS	129	49.012	60.373	-5.859	1.00 23.97	B 13
MOTA	2679		HIS	129	50.170		-5.372		
						59.977		1.00 17.95	B_13
ATOM	2680	NE2	HIS	129	50.658	60.944	-4.605	1.00 13.79	B_13
MOTA	2681	С	HIS	129	46.153	64.457	-5.360	1.00 39.97	B_13
MOTA	2682	0	HIS	129	45.011	64.220	-5.757	1.00 25.97	B_13
MOTA	2683	N	SER	130	46.743	65.640	-5.481	1.00 21.04	B_13
ATOM	2685	CA	SER	130	46.090	66.776	-6.109		
								1.00 16.72	B_13
ATOM	2686	CB	SER	130	46.847	68.058	-5.757	1.00 20.97	B_13
ATOM	2687	OG	SER	130	46.358	69.154	-6.502	1.00 25.52	B_13
								1.00 23.32	
MOTA	2689	С	SER	130	46.098	66.582	-7.622	1.00 24.66	B_13
MOTA	2690	0	SER	130	46.779	65.694	-8.145	1.00 29.24	B_13
ATOM	2691	N	LYS	131	45.315				
						67.403	-8.315	1.00 26.96	B_13
MOTA	2693	CA	LYS	131	45.253	67.358	-9.769	1.00 20.25	B_13
ATOM	2694	CB	LYS	131	43.796	67.379	-10.247	1.00 33.22	B_13
ATOM	2695								
		CG	LYS	131	43.159		~10.302	1.00 32.85	B_13
MOTA	2696	CD	LYS	131	43.335	69.436	-11.675	1.00 15.99	B_13
ATOM	2697	CE	LYS	131	43.023	70.919	-11.601	1.00 30.34	
									B_13
MOTA	2698	NZ	LYS	131	43.879	71.647	-10.600	1.00 30.44	B_13
ATOM	2702	С	LYS	131	45.998	68.602	-10.249	1.00 15.31	B_13
ATOM	2703	ŏ	LYS	131				1.00 15.51	
					46.414		-11.402	1.00 30.72	B_13
ATOM	2704	N	ASP	132	46.191	69.536	-9.323	1.00 23.41	B_13
MOTA	2706	CA	ASP	132	46.869	70.798	-9.581	1.00 22.69	B_13
ATOM	2707	СВ	ASP	132	46.641	71.726	-8.379	1.00 24.86	B_13
MOTA	2708	CG	ASP	132	46.819	73.200	-8.712	1.00 24.93	B_13
ATOM	2709	OD1	ASP	132	46.007	74.009	-8.208	1.00 29.71	B_13
									5-13
ATOM	2710	ODZ	ASP	132	47.766	73.555	-9.448	1.00 28.82	B_13
ATOM	2711	С	ASP	132	48.358	70.497	-9.728	1.00 14.97	B_13
ATOM	2712	ō	ASP	132	49.047	70.235			
						/0.235	-8.742	1.00 19.64	B_13
ATOM	2713	N	PRO	133	48.874	70.538	-10.964	1.00 16.94	B_13
ATOM	2714	CD	PRO	133	48.209	70 971	-12.199	1.00 21.42	B_13
ATOM	2715			133		70.271	- 44 . 477		5-73
		CA	PRO		50.293	70.264	-11.215	1.00 19.34	B_13
ATOM	2716	CB	PRO	133	50.457	70.636	-12.690	1.00 20.48	B_13
MOTA	2717	CG	PRO	133	49.347				
							-12.929	1.00 21.80	B_13
ATOM	2718	С	PRO	133	.51.237	71.059	-10.322	1.00 17.45	B_13
ATOM	2719	0	PRO	133	52.319		-10.006	1.00 23.30	B_13
						70.330			D-13
MOTA	2720	N	GLY	134	50.799	72.246	-9.904	1.00 32.46	B_13
MOTA	2722	CA	GLY	134	51.610	73.104	-9.051	1.00 19.44	B_13
ATOM	2723	c	GLY	134		72 050			
					51.306	72.958	-7.569	1.00 22.33	B_13
ATOM	2724	0	GLY	134	51.556	73.877	-6.795	1.00 21.92	B_13
MOTA	2725	N	ALA	135	50.698	71.836	-7.190	1.00 34.71	B_13
ATOM									
	2727	CA	ALA	135	50.355	71.580	-5.794	1.00 18.35	B_13
MOTA	2728	CB	ALA	135	48.948	70.987	-5.690	1.00 14.30	B_13
MOTA	2729	C	ALA	135	51.370				
						70.616	-5.210	1.00 10.00	B_13
MOTA	2730	0	ALA	135	51.739	69.647	-5.858	1.00 17.52	B_13
MOTA	2731	N	LEU	136	51.727	70.842	-3.952	1.00 21.29	B_13
							3.752		

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ATOM	2733	CA LEU	136	52.692	70.015 -3.230	1 00 14 62	. 13
						1.00 14.62	B_13
ATOM	2734	CB LEU	136	52.738	70.458 -1.763	1.00 18.54	B_13
ATOM	2735	CG LEU	136	54.007	70.308 -0.921	1.00 34.11	B_13
MOTA	2736	CD1 LEU	136	53.587	69.907 0.485	1.00 14.76	B_13
ATOM	2737	CD2 LEU			60.307 0.403		B_13
			136	54.969		1.00 11.64	B_13
MOTA	2738	C LEU	136	52.232	68.564 -3.287	1.00 13.50	B_13
ATOM	2739	O LEU	136	53.033	67.640 -3.238	1.00 19.04	B_13
ATOM	2740	N MET	137				5-13
				50.921	68.364 -3.281	1.00 17.54	B_13
MOTA	2742	CA MET	137	50.360	67.019 -3.324	1.00 25.11	B_13
MOTA	2743	CB MET	137	49.010	66.981 -2.599	1.00 19.80	B_13
ATOM	2744	CG MET	137				5-13
				49.083	67.312 -1.117	1.00 15.35	B_13
MOTA	2745	SD MET	137	50.354	66.361 -0.262	1.00 11.22	B_13
ATOM	2746	CE MET	137	49.882	64.680 -0.764	1.00 13.90	B_13
ATOM	2747	C MET	137				
				50.254	66.387 -4.721	1.00 28.08	B_13
MOTA	2748	O MET	137	49.730	65.268 -4.863	1.00 12.18	B_13
ATOM	2749	N PHE	138	50.771	67.070 -5.743	1.00 10.00	B_13
ATOM	2751	CA PHE	138	50.751	66.528 -7.097	1.00 12.27	5 13
-						1.00 12.27	B_13
ATOM	2752	CB PHE	138		67.523 -8.094	1.00 19.38	B_13
MOTA	2753	CG PHE	138	51.051	67.175 -9.534	1.00 25.74	B_13
ATOM	2754	CD1 PHE	138	52.090	67.077 -10.448	1.00 19.74	B_13
ATOM	2755	CD2 PHE	138				
				49.747	67.007 -9.990	1.00 24.46	B_13
ATOM	2756	CE1 PHE	138	51.843	66.824 -11.786	1.00 19.54	B_13
ATOM	2757	CE2 PHE	138	49.495	66.750 -11.335	1.00 24.12	B_13
MOTA	2758	CZ PHE	138	50.544	66.664 -12.230	1,.00 18.15	B_13
ATOM						1.00 18.13	P_13
	2759	C PHE	138	51.619	65.269 -7.068	1'.00 25.93	B_13
ATOM	2760	O PHE	138	52.658	65.226 -6.414	1.00 12.50	B_13
ATOM	2761	N PRO	139	51.166	64.194 -7.714	1.00 25.17	B_13
MOTA	2762	CD PRO	139	49.870			
						1.00 10.00	B_13
MOTA	2763	CA PRO	139	51.950	62.956 -7.713	1.00 18.48	B_13
MOTA	2764	CB PRO	139	50.981	61.946 -8.339	1.00 15.96	B_13
ATOM	2765	CG PRO	139	50.140	62.798 -9.250	1.00 18.82	
	2766						B_13
MOTA		C PRO	139	53.299	62.950 -8.430	1.00 17.22	B_13
MOTA	2767	O PRO	139	53.849	61.876 -8.661	1.00 36.93	B_13
MOTA	2768	N ILE	140	53.844	64.114 -8.767	1.00 24.48	B_13
ATOM	2770	CA ILE	140	55.118			
					64.155 -9.477	1.00 20.03	B_13
MOTA	2771	CB ILE	140	54.996	64.807 -10.892	1.00 18.71	B_13
ATOM	2772	CG2 ILE	140	56.334	64.709 -11.639	1.00 23.96	B_13
ATOM	2773	CG1 ILE	140	53.932	64.11311.724	1.00 24.68	B_13
ATOM	2774						
		CD1 ILE	140	53.861	64.669 -13.125	1.00 25.83	B_13
ATOM	2775	C ILE	140	56.109	64.992 -8.700	1.00 27.87	B_13
ATOM	2776	O ILE	140	55.758	66.043 -8.248	1.00 22.39	B_13
MOTA	2777	N TYR					
			141	57.332	64.512 -8.535	1.00 12.36	B_13
ATOM	2779	CA TYR	141	58.350	65.281 -7.834	1.00 21.85	B_13
MOTA	2780	CB TYR	141	59.418	64.353 -7.266	1.00 15.16	B_13
ATOM	2781	CG TYR	141	60.592	65.096 -6.672		B_13
ATOM						1.00 15.65	
	2782	CD1 TYR	141	61.755	65.306 -7.407	1.00 18.56	B_13
ATOM	2783	CE1 TYR	141	62.836	65.967 -6.859	1.00 10.00	B_13
ATOM	2784	CD2 TYR	141	60.546	65.576 -5.366	1.00 11.42	B_13
ATOM	2785	CE2 TYR	141	61.626		1.00 13.45	
					66.236 -4.814		B_13
ATOM	2786	CZ TYR	141	62.770	66.429 -5.567	1.00 10.00	B_13
MOTA	2787.	OH TYR	141	63.841	67.109 -5.016	1.00 18.97	B_13
ATOM	2789	C TYR	141	59.042	66.270 -8.776	1.00 19.52	B_13
ATOM	2790			50 500			
		O TYR	141	59.709	65.859 -9.727	1.00 21.37	B_13
ATOM	2791	N THR	142	58.932	67.556 -8.465	1.00 23.99	B_13
ATOM	2793	CA THR	142	59.573	68.616 -9.238	1.00 19.53	B_13
MOTA	2794	CB THR	142	58.515	69.578 -9.807	1.00 10.00	B_13
ATOM	2795	OG1 THR	142	57.704			
					68.880 -10.756		B_13
MOTA	2797	CG2 THR	142	59.151	70.757 -10.457	1.00 34.35	B_13
MOTA	2798	C THR	142	60.483	69.332 -8.235	1.00 19.89	B_13
MOTA	2799	O THR	142	60.120	69.513 -7.076	1.00 25.67	B_13
ATOM	2800						
		n tyr	143	61.699	69.677 -8.643	1.00 30.64	B_13
MOTA	2802	CA TYR	143	62.609	70.344 -7.707	1.00 32.54	B_13
ATOM	2803	CB TYR	143	64.091	70.190 -8.108		B_13
ATOM	2804	CG TYR	143				
				65.008	71.048 -7.244		B_13
ATOM	2805	CD1 TYR	143	65.066	70.866 -5.852	1.00 16.37	B_13
ATOM	2806	CE1 TYR	143	65.801	71.738 -5.035		B_13
ATOM	2807	CD2 TYR	143	65.714			B_13
ATOM							
	2808	CE2 TYR	143	66.451	73.006 -6.981		B_13
MOTA	2809	CZ TYR	143	66.489	72.810 -5.610		B_13
ATOM	2810	OH TYR	143	67.184	73.665 -4.790		B_13
ATOM							P-13
	2812	C TYR	143	62.330	71.815 -7.456		B_13
ATOM	2813	O TYR	143	62.201	72.611 -8.399	1.00 26.19	B_13
MOTA	2814	N THR	144	62.292	72.160 -6.170		B_13
ATOM	2816	CA THR	144	62.103			2-11
ATOM							B_13
	2817	CB THR	144	60.668	73.814 -5.189		B_13
ATOM	2818	OG1 THR	144	60.277	72.812 -4.241		B_13
MOTA	2820	CG2 THR	144	59.681	73.857 -6.346	1.00 48.73	B_13
						1.00 40.73	

95.77

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MOTA	2821	C	THR	144	63.178	73.893	-4.695	1.00 35.52	B_13
MOTA	2822	0	THR	144	64.207	74.465	-5.064	1.00 39.57	B_13
ATOM	2823	N	GLY	145	62.967	73.552	-3.422	1.00 35.95	B_13
									D-13
MOTA	2825	CA	GLY	145	63.967	73.872	-2.407	1.00 35.01	B_13
ATOM	2826	С	GLY	145	63.509	74.025	-0.965	1.00 26.81	B_13
ATOM	2827	Ō	GLY	145	62.566	74.773	-0.670		B_13
								1.00 40.81	
ATOM	2828	N	LYS	146	64.302	73.439	-0.066	1.00 27.13	B_13
MOTA	2830	CA	LYS	146	64.071	73.423	1.389	1.00 23.89	B_13
MOTA	2831	СВ	LYS	146	65.163	72.548	2.049	1.00 29.08	B_13
ATOM	2832	CG	LYS	146	64.992	72.209	3.524	1.00 19.99	B_13
atom	2833	CD	LYS	146	66.079	71.224	3.913	1.00 20.44	B_13
ATOM	2834	CE	LYS	146	66.181	71.010	5.402	1.00 24.16	B_13
MOTA	2835	NZ	LYS	146	67.250	69.987	5.727	1.00 23.37	B_13
MOTA	2839	С	LYS	146	63.926	74.778	2.124	1.00 18.98	B_13
ATOM	2840	ō	LYS	146					
					63.900	74.831	3.353	1.00 28.15	B_13
MOTA	2841	N	SER	147	63.826	75.871	1.382	1.00 35.50	B_13
MOTA	2843	CA	SER	147	63.661	77.185	1.992	1.00 31.59	B_13
MOTA	2844	CB	SER	147	64.988	77.673	2.594	1.00 27.05	B_13
MOTA	2845	OG	SER	147	65.996	77.756	1.586	1.00 48.28	B_13
ATOM	2847	Ċ	SER	147					
					63.203	78.131	0.902	1.00 27.12	B_13
MOTA	2848	0	SER	147	62.743	79.251	1.168	1.00 33.75	B_13
MOTA	2849	N	HIS	148	63.248	77.644	-0.332	1.00 25.13	B_13
								1.00 25.15	
MOTA	2851	CA	HIS	148	62.872	78.465	-1.463	1.00 23.42	B_13
ATOM	2852	CB	HIS	148	63.704	78.076	-2.678	1.00 17.40	B_13
MOTA	2853	CG	HIS	148	65.174	78.020	-2.398		
								1.00 45.97	B_13
ATOM	2854	CD2	HIS	148	66.204	77.524	-3.121	1.00 27.24	B_13
ATOM	2855	ND1	HIS	148	65.724	78.476	-1.213	1.00 43.49	B_13
ATOM									
	2857		HIS	148	67.024	78.253	-1.218	1.00 30.28	B_13
MOTA	2858	NE2	HIS	148	67.342	77.676	-2.366	1.00 45.28	B_13
ATOM	2860	С	HIS	148	61.381	78.433			
							-1.796	1.00 47.15	B_13
MOTA	2861	0	HIS	148	60.936	79.166	-2.704	1.00 40.97	B_13
ATOM	2862	N	PHE	149	60.601	77.636	-1.053	1.00 48.76	B_13
MOTA	2864	CA	PHE	149	59.170	77.557	-1.347	1.00 32.44	B_13
ATOM	2865	CB	PHE.	149	58.856	76.364	-2.269	1.00 27.77	B_13
ATOM	2866	CG	PHE	149					
					58.415	76.781	-3.657	1.00 24.63	B_13
ATOM	2867	CDI	PHE	149	57.826	75.874	-4.520	1.00 25.66	B_13
ATOM	2868	CD2	PHE	. 149	58.550	78.106	-4.072	1.00 30.89	B_13
MOTA	2869		PHE	149	57.376	76.277	-5.767	1.00 17.10	B_13
MOTA	2870	CE2	PHE	149	58.104	78.520	-5.311	1.00 18.57	B_13
ATOM	2871	CZ	PHE	149				1.00 10.57	
					57.513	77.608	-6.166	1.00 30.20	B_13
ATOM	2872	С	PHE	149	58.061	77.791	-0.308	1.00 27.40	B_13
ATOM	2873	0	PHE	149	58.299	77.971	0.892	1.00 29.69	
									B_13
MOTA	2874	N	MET	150	56.836	77.729	-0.822	1.00 28.66	B_13
ATOM	2876	CA	MET	150	55.621	78.027	-0.094	1.00 20.63	B_13
MOTA	2877	CB	MET	150					
					55.251	79.431	-0.503	1.00 25.60	B_13
MOTA	2878	CG	MET	150	55.599	79.691	-1.989	1.00 23.95	B_13
ATOM	2879	SD	MET	150	57.336	80.086	-2.296	1.00 76.68	B_13
ATOM									
	2880	CE	MET	150	57.209	81.473	-3.385	1.00 21.07	B_13
MOTA	2881	С	MET	150	54.436	77.118	-0.450	1.00 30.58	B_13
ATOM	2882	0	MET	150	54.104	76.948	-1.628	1.00 16.91	
									B_13
MOTA	2883	N	LEU	151	53.727	76.664	0.581	1.00 36.94	B_13
MOTA	2885.	CA	LEU	151	52.576	75.772	0.431	1.00 25.68	B_13
ATOM	2886	CB	LEU				1 000	1.00 23.00	5_13
				151	51.968	75.474	1.807	1.00 23.46	B_13
ATOM	2887	CG	LEU	151	51.087	74.232	1.927	1.00 24.21	B_13
MOTA	2888	CD1	LEU	151	51.936	72.998	1.657		B_13
ATOM			LEU			74 150			
	2889			151	50.487	74.150	3.314	1.00 19.89	B_13
MOTA	2890	С	LEU	151	51.498	76.322	-0.491	1.00 17.09	B_13
MOTA	2891	0	LEU	151	50.795	77.267	-0.136	1.00 35.38	B_13
MOTA	2892	N	PRO	152	51.338	75.727	-1.686	1.00 16.90	B_13
ATOM	2893	CD	PRO	152	52.154	74.643	-2.255	1.00 25.80	B_13
MOTA	2894	CA	PRO	152	50.334				5_13
					50.534	76.170	-2.653		B_13
ATOM	2895	CB	PRÒ	152	50.447	75.110	-3.749	1.00 24.68	B_13
ATOM	2896	CG	PRO	152	51.892	74.791	-3.722		B_13
								1.00 14.34	
MOTA	2897	С	PRO	152	48.910	76.261	-2.087	1.00 10.00	B_13
ATOM	2898	0	PRO	152	48.543	75.505	-1.184	1.00 20.25	B_13
MOTA	2899								
		N	ASP	153	48.117	77.180	-2.639	1.00 19.53	B_13
MOTA	2901	CA	ASP	153	46.723	77.387	-2.226	1.00 15.90	B_13
ATOM	2902	CB	ASP	153	45.986	78.304	-3.213		5-77
								1.00 22.34	B_13
MOTA	2903	CG	ASP	153	46.418	79.741	-3.115	1.00 28.86	B_13
MOTA	2904	OD1	ASP	153	47.016	80.115	-2.074	1.00 35.34	B_13
ATOM	2905	_							5-43
			ASP	153	46.142	80.494	-4.084	1.00 30.09	B_13
MOTA	2906	С	ASP	153	45.953	76.084	-2.169	1.00 27.31	B_13
MOTA	2907	0	ASP	153	45.309	75.783			B_13
							-1.167	1.00 23.50	
MOTA	2908	N	ASP	154	46.000	75.339	-3.276	1.00 25.51	B_13
MOTA	2910	CA	ASP	154	45.316	74.063	-3.392	1.00 20.91	B_13
MOTA	2911								
		CB	ASP	154	45.745	73.364	-4.682	1.00 14.23	B_13
ATOM	2912	CG	ASP	154	45.033	72.062	-4.885	1.00 22.95	B_13
							_		

3 4044	2012	0	3.05	154	AC E00	71 000	-4.516	1 00 17 00	n 45
ATOM ATOM	2913 ° 2914	OD1 OD2		154 154	45.590 43.904	71.026 72.076	-4.516 -5.388	1.00 17.80 1.00 19.14	B_13 B_13
ATOM	2914	CDZ	ASP	154		73.155	-2.173	1.00 19.14	B_13
ATOM	2916	ŏ	ASP	154	44.629	72.491	-1.696	1.00 22.92	B_13
ATOM	2917	N	ASP	155	46.776	73.155	-1.654	1.00 23.56	B_13
MOTA	2919	CA	ASP	155	47.110	72.338	-0.490	1.00 28.69	B_13
MOTA	2920	CB	ASP	155	48.618	72.118	-0.388	1.00 12.87	B_13
MOTA	2921	CG	ASP	155	49.208	71.566	-1.676	1.00 24.35	B_13
ATOM	2922'		ASP	155	49.705	72.369	-2.500	1.00 27.89	B_13
ATOM	2923		ASP	155	49.152	70.335	-1.875	1.00 16.96	B_13
MOTA MOTA	2924 2925	C	ASP ASP	155 155	46.582 46.055	72.976 72.275	0.781 1.656	1.00 25.41 1.00 13.36	B_13 B_13
ATOM	2926	N O	VAL	156	46.733	74.296	0.891	1.00 16.99	B_13
MOTA	2928	CA	VAL	156	46.222	75.021	2.053	1.00 22.26	B_13
ATOM	2929	СВ	VAL	156	46.340	76.571	1.901	1.00 25.69	B_13
MOTA	2930		VAL	156	45.811	77.249	3.158	1.00 14.95	B_13
MOTA	2931	CG2	VAL	156	47.768	77.007	1.641	1.00 17.52	B_13
MOTA	2932	C	VAL	156	44.727	74.705	2.129	1.00 10.00	B_13
ATOM	2933	0	VAL	156	44.224	74.234	3.145	1.00 22.47	B_13
MOTA	2934	N	GLN	157	44.033 42.604	74.980 74.758	1.029 0.930	1.00 16.19 1.00 17.97	B_13 B_13
MOTA MOTA	2936 2937	CA CB	GLN GLN	157 157	42.108	75.039	-0.497	1.00 17.37	B_13
ATOM	2938	CG	GLN	157	40.804	75.852	-0.547	1.00 26.00	B_13
ATOM	2939	CD	GLN	157	40.949	77.284	-0.005	1.00 25.84	B_13
MOTA	2940	OE1	GLN	157	41.218	77.505	1.177	1.00 39.61	B_13
MOTA	2941		GLN	157	40.744	78.255	-0.875	1.00 32.22	B_13
ATOM	2944	C	GLN	157	42.347	73.324	1.309	1.00 18.69	B_13
MOTA	2945	0	GLN	157	41.368	73.015	1.982	1.00 10.00	B_13
MOTA	2946	N	GLY	158	43.272	72.460 71.053	0.903 1.205	1.00 31.05 1.00 21.69	B_13 B_13
MOTA MOTA	2948 2949	CA C	GLY GLY	158 158	43.156 43.129	70.738	2.684	1.00 21.09	B_13
ATOM	2950	ŏ	GLY	158	42.108	70.263	3.182		B_13
ATOM	2951	N	ILE	159	44.224	71.006	3.398	1.00 19.34	B_13
MOTA	2953	CA	ILE	159	44.268	70.686	4.827	1.00 19.14	B_13
MOTA	2954	CB	ILE	159	45.669	70.880	5.503	1.00 12.57	B_13
MOTA	2955		ILE	159	46.268	69.542	5.960	1.00 19.22	B_13
ATOM	2956		ILE	159	46.603	71.702	4.633	1.00 31.62	B_13
MOTA	2957		ILE	159 159	46.426	73.177 71.461	4.824 5.610	1.00 25.87 1.00 21.87	B_13 B_13
ATOM ATOM	2958 2959	C	ILE	159	43.235 42.691	70.952	6.592	1.00 21.07	B_13
ATOM	2960	N	GLN	160	42.959	72.689	5.186	1.00 12.08	B_13
ATOM	2962	CA	GLN	160	41.967	73.483	5.874	1.00 11.43	B_13
ATOM	2963	CB	GLN	160	41.949	74.916	5.346	1.00 29.25	B_13
MOTA	2964	CG	GLN	160	43.158	75.737	5.827	1.00 22.01	B_13
ATOM	2965	CD	GLN	160	43.098	77.199	5.416	1.00 18.77	B_13
MOTA	2966	OE1		160	42.260	77.593	4.607	1.00 36.02	B_13 B_13
MOTA MOTA	2967 2970	NE2 C	GLN GLN	160 160	43.997 40.596	78.004 72.820	5.965 5.772	1.00 28.49 1.00 22.28	B_13
ATOM	2971	Ö	GLN	160	39.855	72.786	6.754	1.00 14.16	B_13
ATOM	2972	N	SER	161	40.304	72.183	4.634	1.00 32.89	B_13
ATOM	2974	CA	SER	161	39.005	71.537	4.474	1.00 29.25	B_13
MOTA	2975	CB	SER	161	38.847	70.901	3.085	1.00 19.70	B_13
ATOM	2976	OG	SER	161	39.594	69.706	2.946		B_13
ATOM	2978	c	SER	161	38.831	70.503	5.566	1.00 22.08	B_13
ATOM	2979	0	SER	161	37.745	70.340	6.118	1.00 26.26	B_13
MOTA MOTA	2980 2982	N CA	LEU	162 162	39.931 39.913	69.852 68.829	5.919 6.953	1.00 19.14 1.00 29.17	B_13 B_13
MOTA	2983	CB	LEU	162	41.081	67.852	6.767	1.00 12.08	B_13
ATOM	2984	CG	LEU	162	40.982	66.666	5.812	1.00 20.09	B_13
ATOM	2985		LEU	162	40.661	67.184	4.478	1.00 24.51	B_13
ATOM	2986		LEU	162	42.299	65.884	5.794	1.00 27.00	B_13
ATOM	2987	C ·	LEU	162	39.965	69.392	8.364	1.00 24.75	B_13
MOTA	2988	0	LEU	162	39.047	69.191	9.162	1.00 22.04	B_13
ATOM	2989	N	TYR	163	41.015	70.151	8.652	1.00 20.72	B_13
ATOM	2991	CA	TYR	163	41.211	70.689	9.980	1.00 10.00	B_13
ATOM ATOM	2992 2993	CB	TYR	163 163	42.695 43.221	70.595 69.167	10.343	1.00 10.95 1.00 10.00	B_13 B_13
ATOM	2993	CG	TYR TYR	163	43.221	68.261	11.264	1.00 10.00	B_13 B_13
MOTA	2995	CEI		163	43.452	66.913	11.103	1.00 26.00	B_13
MOTA	2996		TYR	163	43.703	68.689	8.990	1.00 23.78	B_13
MOTA	2997	CE2		163	44.048	67.342	8.822	1.00 17.88	B_13
MOTA	2998	CZ	TYR	163	43.914	66.461	9.879	1.00 24.28	B_13
MOTA	2999	OH	TYR		44.210	65.121	9.711	1.00 13.27	B_13
MOTA	3001	C	TYR		40.634	72.085	10.187	1.00 26.45	B_13
ATOM	3002	O.	TYR	163	39.975	72.327	11.190	1.00 31.25	B_13
MOTA	3003	N	GLY	164	40.819	72.975	9.219	1.00 29.43	B_13
MOTA	3005	CA	GLY	164	40.291	74.324	9.340	1.00 30.64	B_13

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MOTA	3006	C CLV	164	41 400	75 344	9.424	1 00 30 00	
		C GLY		41.402	75.344		1.00 30.89	B_13
ATOM	3007	O GLY	164	41.101	76.564	9.368	1.00 26.89	B_13
ATOM	3008	OT GLY	164	42.570	74.911	9.560	1.00 27.71	B_13
ATOM	3013	ZN ZN	166	51.961		-2.865	1.00 28.31	
								BION
ATOM	3014	ZN ZN	167	56.468	50.981	3.458	1.00 26.20	BION
MOTA	3015	CA CA	168	63.096	53.752	-5.445	1.00 14.89	BION
MOTA	3016		165	50.705	55.618	13.085	1.00 15.79	BION
MOTA	3047	C5 WAY	169	54.585	56.119	-6.288	1.00 40.09	B693
ATOM	3048	CF1 WAY	169	54.019	54.934	-5.802		
							1.00 21.52	B693
MOTA	3049	CH WAY	169	53.271	54.923	-4.624	1.00 32.32	B693
ATOM	3050	C2 WAY	169	53.100	56.104	-3.898	1.00 21.39	B693
MOTA	3051	C3 WAY	169	53.667 .		-4.369	1.00 18.26	B693
ATOM	3052	C4 WAY	169	54.402	57.308	-5.540	1.00 20.63	B693
MOTA	3053	N20 WAY	169	54.933	58.531	-5.964	1.00 22.15	B693
MOTA	3054	CD WAY	169	54.297	59 <i>.</i> 340	-7.031	1.00 30.92	В693
ATOM	3055	C23 WAY	169	53.576	58.491	-8.087	1.00 20.75	В693
ATOM	3056	C28 WAY	169	54.224	58.114	-9.279		
			_				1.00 34.14	B693
MOTA	3057	C27 WAY	169	53.539	57.335	-10.228	1.00 33.99	B693
MOTA	3058	CM WAY	169	52.209	56.944	-9.968	1.00 23.49	B693
MOTA	3059	N25 WAY	169	51.602	57.318	-8.814	1.00 23.61	B693
MOTA	3060	C24 WAY	169	52.246	58.071	-7.880	1.00 20.52	B693
ATOM	3061	S21 WAY	169	56.531	58.783	-5.660	1.00 20.46	B693
MOTA	3062	C16 WAY	169	56.457	60.446	-5.010	1.00 39.00	в693
MOTA	3063	C21 WAY	169	56.700	60.669	-3.634	1.00 28.79	B693
ATOM	3064	C20 WAY	169	56.656	61.967	-3.109	1.00 12.65	B693
MOTA	3065	C19 WAY	169	56.373	63.058	-3.946	1.00 15.68	B693
MOTA	3066	C18 WAY	169	56.126	62.828	-5.319	1.00 12.08	B693
ATOM	3067	C17 WAY	169		61.538	-5.852	1.00 15.19	B693
ATOM	3068	O33 WAY	169	56.337	64.360	-3.424	1.00 16.79	B693
MOTA	3069	C36 WAY	169	56.982	65.456	-4.084	1.00 20.80	B693
ATOM	3070	O15 WAY	169	56.973	57.923	-4.580	1.00 21.90	
								B693
MOTA	3071	O14 WAY	169	57.259	58.799	-6.913	1.00 10.86	B693
MOTA	3072	C7 WAY	169	53.486	58.556	-3.613	1.00 10.00	B693
MOTA	3073	N9 WAY	169	53.741	58.606		1.00 10.00	
						-2.303		B693
ATOM	3074	O10 WAY	169	53.539	59.846	-1.659	1.00 23.73	B693
MOTA	3075	YAW 80	169	53.107	59.569	-4.154	1.00 15.89	B693
MOTA	3076	C29 WAY	169	55.383	55.968	-7.606	1.00 28.30	B693
ATOM	1	OH2 WAT	301	67.399	53.332	19.612	1.00 10.00	SOLV
ATOM	2	OH2 WAT	302	61.288	46.506	17.898	1.00 10.00	SOLV
ATOM	3	OH2 WAT	303	79.538	50.433	20.115	1.00 10.00	SOLV
ATOM	4	OH2 WAT	304	80.982	25.236	19.076	1.00 26.37	SOLV
ATOM	5	OH2 WAT	305	82.461	30.767	19.346	1.00 13.02	SOLV
MOTA	6	OH2 WAT	306	67.759	41.912	4.887	1.00 17.30	SOLV
MOTA	7	OH2 WAT	307	60.785	41.727	10.585	1.00 20.42	SOLV
ATOM	8	OH2 WAT	308	89.638	33.523	25.640		
	-						1.00 33.45	SOLV
ATOM	9	OH2 WAT	309	77.721	51.975	4.391	1.00 13.91	SOLV
MOTA	10	OH2 WAT	310	96.022	34.702	6.692	1.00 25.50	SOLV
ATOM	. 11	OH2 WAT	311	71.292	38.746	26.741	1.00 13.06	
								SOLV
ATOM	12	OH2 WAT	312	85.939	49.781	3.498	1.00 12.04	SOLV
MOTA	13	OH2 WAT	313	58.101	41.127	10.261	1.00 40.97	SOLV
MOTA	14	OH2 WAT	314	86.373	42.692	0.747	1.00 17.24	SOLV
MOTA	15	OH2 WAT	315	78.257	39.885	24.626	1.00 18.57	SOLV
MOTA	16	OH2 WAT	316	68.341	48.572	25.558	1.00 18.33	SOLV
ATOM	17	OH2 WAT	317	79.806	29.147	18.371	1.00 10.00	SOLV
						10.3/1		
ATOM	18	OH2 WAT	318	87.119	44.480		1.00 46.31	SOLV
MOTA	19	OH2 WAT	319	55.885	39.688	11.459	1.00 21.26	SOLV
ATOM	20	OH2 WAT	320	73.250	41.084	0.386	1.00 18.49	SOLV
				75.250				
ATOM	21	OH2 WAT	321	72.079	46.488	-6.835	1.00 27.48	SOLV
ATOM	22	OH2 WAT	322	71.923	37.638	-3.750	1.00 29.19	SOLV
ATOM	23	OH2 WAT	323	74.998	28.451	2.684	1.00 34.60	
MOTA	24	OH2 WAT	324	87.769	44.123	9.214	1.00 15.60	SOLV
ATOM	25	OH2 WAT	325	86.113	24.382	16.709	1.00 25.17	SOLV
MOTA	26	OH2 WAT	326	81.205	57.603		1.00 34.27	
								SOLV
ATOM	27	OH2 WAT	327	75.163	62.739	12.391	1.00 16.47	SOLV
MOTA	28	OH2 WAT	328	65.604	44.690		1.00 26.64	SOLV
ATOM	29		329	61.899				
		OH2 WAT			45.512	29.269	1.00 15.82	SOLV
ATOM	30	OH2 WAT	330	58.763	41.730		1.00 27.95	SOLV
ATOM	31	OH2 WAT	331	69.823	44.729	6.258	1.00 13.37	SOLV
ATOM				79.220				
	32	OH2 WAT	332		61.263		1.00 28.84	SOLV
ATOM	33	OH2 WAT	333	78.105	37.095	27.911	1.00 34.48	SOLV
ATOM	34	OH2 WAT	334	75.939	25.608	12.364	1.00 35.21	SOLV
ATOM	35	OH2 WAT	335	90.256	42.668		1.00 45.05	SOLV
ATOM	36	OH2 WAT	336	86.761	51.457	13.881	1.00 25.26	SOLV
ATOM	37	OH2 WAT	337	67.479	42.004		1.00 33.30	SOLV
ATOM								
	38	OH2 WAT	338	82.018	50.963		1.00 19.80	SOLV
ATOM	39	OH2 WAT	339	80.278	32.895	-1.126	1.00 30.16	SOLV
ATOM	40	OH2 WAT	340	71.683	50.944	31.567	1.00 29.62	SOLV
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ATOM	41	OH2 WAT	341	61.633	49.360	10.951	1.00 15.47	SOLV
ATOM	42	OH2 WAT	342	89.589	43.811	5.959	1.00 18.08	SOLV
ATOM	43	OH2 WAT	343		35.952	14.932	1.00 34.03	SOLV
ATOM	44	OH2 WAT	344	89.836	28.590	26.657	1.00 18.11	SOLV
ATOM	45	OH2 WAT	345	70.822	32.764	1.461	1.00 22.35	SOLV
ATOM	46	OH2 WAT	346	63.056	34.653	0.491	1.00 29.51	SOLV
ATOM	47	OH2 WAT	347	58.054	46.282	2.363	1.00 10.00	SOLV
ATOM	48	OH2 WAT	348	67.914	58.660	-6.267	1.00 18.30	SOLV
ATOM	49	OH2 WAT	349	70.170	56.725	0.575	1.00 11.89	SOLV
ATOM	ŠÒ	OH2 WAT	350	55.922	73.897	0.623	1.00 18.86	SOLV
ATOM	51	OH2 WAT	351	73.489	53.195	2.061	1.00 24.35	SOLV
ATOM	52	OH2 WAT	352	58.033	50.530	19.075	1.00 25.52	SOLV
ATOM	53	OH2 WAT	353	63.245	57.302	17.340	1.00 13.88	SOLV
ATOM	54	OH2 WAT	354	58.442	71.334	-5.670	1.00 17.51	SOLV
ATOM	55	OH2 WAT	355	62.535	61.154	16.706	1.00 12.38	SOLV
ATOM	56	OH2 WAT	356	66.949		-10.284	1.00 17.92	SOLV
ATOM	57	OH2 WAT	357	57.588	54.191	9.850	1.00 17.88	SOLV
MOTA	58	OH2 WAT	358	64.836	48.085	4.627	1.00 17.80	SOLV
MOTA	59	OH2 WAT	359	66.445	61.785	19.640	1.00 24.12	SOLV
MOTA	60	OH2 WAT	360	55.740	42.557	0.533	1.00 27.32	SOLV
MOTA	61	OH2 WAT	361	74.075	57.146	13.179	1.00 18.01	SOLV
ATOM	62	OH2 WAT	362	46.987	69.315	-2.545	1.00 11.87	SOLV
MOTA	63	OH2 WAT	363	53.842	52.266	-2.612	1.00 25.20	SOLV
MOTA	64	OH2 WAT	364	33.425	65.313	-4.686	1.00 28.97	SOLV
ATOM	65	CH2 WAT	365	45.633	51.173	10.502	1.00 31.97	SOLV
MOTA	66	OH2 WAT	366	39.040	71.050	-0.722	1.00 20.81	SOLV
MOTA	67	OH2 WAT	367	54.517	67.335	-6.251	1.00 46.24	SOLV
MOTA	68	OH2 WAT	368	45.083	67.138	20.314	1.00 29.47	SOLV
ATOM	69	OH2 WAT	369	65.758	67.669	-6.655	1.00 14.69	SOLV
MOTA	70	OH2 WAT	370	44.943	78.174	12.948	1.00 23.88	SOLV
MOTA	71	OH2 WAT	371	37.141	57.403	1.723	1.00 23.72	SOLV
MOTA	72	OH2 WAT	372	62.407	66.806	13.368	1.00 13.36	SOLV
MOTA	73	OH2 WAT	373	50.776	47.263	5.661	1.00 38.22	SOLV
MOTA	74	OH2 WAT	374	56.697	47.264	11.752	1.00 24.75	SOLV
ATOM	75	OH2 WAT	375	42.566	60.884	15.739	1.00 16.25	SOLV
ATOM	76	OH2 WAT	376	59.299	74.342	13.838	1.00 31.27	SOLV
MOTA	77	OH2 WAT	377	72.976	63.691	-0.667	1.00 20.36	SOLV
MOTA	78	OH2 WAT	378	72.876	60.516	-6.752	1.00 34.24	SOLV
MOTA	79	OH2 WAT	379	63.998	68.760	16.371	1.00 19.04	SOLV
MOTA	80	OH2 WAT	380	44.947	66.728	-2.566	1.00 29.51	SOLV
ATOM	81	OH2 WAT	381	57.690	61.926	-9.414	1.00 29.01	SOLV
MOTA	82	OH2 WAT	382	44.595	80.810	5.831	1.00 27.43	SOLV
ATOM	83	OH2 WAT	383	78.065	36.583	24.121	1.00 14.08	SOLV
ATOM .	84	OH2 WAT	384	42.289	64.651	-0.868	1.00 25.57	SOLV
ATOM	85	OH2 WAT	385	59.851	68.458	~12.381	1.00 30.18	SOLV
MOTA	86	OH2 WAT	386	53.784	72.644	-4.782	1.00 22.35	SOLV
MOTA	· 87	OH2 WAT	387	72.793	27.922	8.925	1.00 32.13	SOLV
MOTA	88	OH2 WAT	388	57.224	68.062	-6.072	1.00 17.87	SOLV
MOTA	89	OH2 WAT	389	45.210	44.988	4.285	1.00 25.10	SOLV
ATOM	90	OH2 WAT	390	49.413	53.782	1.546	1.00 21.68	SOLV
MOTA	91	OH2 WAT	391	45.232	59.677	1.393	1.00 19.25	SOLV
MOTA	92	OH2 WAT	392	42.551	59:954	5.056	1.00 27.30	SOLV
MOTA	93	OH2 WAT	393	58.412	43.750	3.948	1.00 58.70	SOLV
MOTA	94	OH2 WAT	394	56.942	54.199	-2.588	1.00 31.14	SOLV
MOTA	95	OH2 WAT	395	55.216	51.994	9.824	1.00 13.25	SOLV
MOTA	96	OH2 WAT	396	51.642	54.651	14.874	1.00 10.00	SOLV
ATOM	97	OH2 WAT	397	48.690	56.156	13.991	1.00 28.59	SOLV
MOTA	98	OH2 WAT	398	74.412	37.913	0.396	1.00 12.55	SOLV
MOTA	99	OH2 WAT	399	81.920	53.968	18.267	1.00 14.05	SOLV
MOTA	100	OH2 WAT	400	70.413	41.780	1.170	1.00 16.68	SOLV
MOTA	101	OH2 WAT	401	71.098	53.544	2.407	1.00 27.63	SOLV
MOTA	102	OH2 WAT	402	94.383	32.979	9.497	1.00 27.97	SOLV
MOTA	103	OH2 WAT	403	70.765	66.069	16.389	1.00 38.09	SOLV
MOTA	104	OH2 WAT	404	78.651	34.890	29.495	1.00 48.60	SOLV
MOTA	105	OH2 WAT	405	80.289	39.811	24.727	1.00 20.74	SOLV
MOTA	106	OH2 WAT	406	63.627	47.414	7.301	1.00 40.21	SOLV
MOTA	107	OH2 WAT	407	74.679	30.772	11.524	1.00 37.03	SOLV
MOTA	108	OH2 WAT	408	80.240	36.041	26.681	1.00 27.42	SOLV
MOTA	109	OH2 WAT	409	84.971	25.909	18.426	1.00 24.96	SOLV
MOTA	110	OH2 WAT	410	57.832	41.294	5.792	1.00 71.90	SOLV
MOTA	111	OH2 WAT	411	55.484	68.139	-9.086	1.00 48.47	SOLV
ATOM	112	OH2 WAT	412	65.535	68.260	2.400	1.00 26.24	SOLV
ATOM	113	OH2 WAT	413	80.085	42.291	-3.144	1.00 26.49	SOLV
MOTA	114	OH2 WAT	414	82.088	37.456	27.733	1.00 42.54	SOLV
ATOM	115	TAW SHO	415	61.020	53.195	21.566	1.00 38.16	SOLV
ATOM	116	OH2 WAT	416	55.968	70.365	-5.096	1.00 28.42	SOLV
MOTA	117	OH2 WAT	417	51.619	57.620	-0.487	1.00 41.81	SOLV

ATOM	118	OH2 W	AT 418	40.651	66.108	2.086	1.00 40.11	SOLV
ATOM	119	OH2 W	AT 419	· 58.453	49.818	7.926	1.00 38.96	SOLV
MOTA	120	OH2 W	AT 420	53.768	51.716	13.623	1.00 43.62	SOLV
MOTA	121	OH2 W	AT 421	76.068	60.373	21.292	1.00 39.30	SOLV
ATOM END	122	OH2 W	AT 422	56.186	50.034	17.422	1.00 37.47	SOLV

FIG. 6

Compound C

FIG. 7

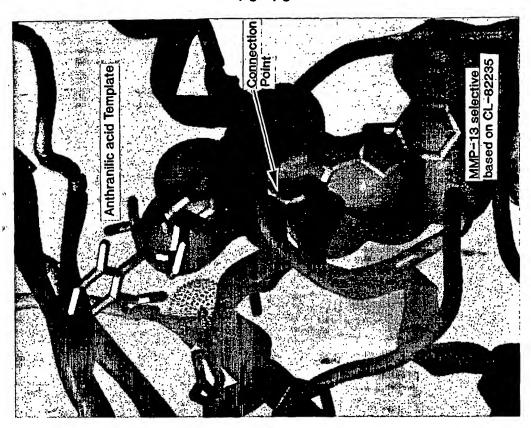


FIG. 8

SUBSTITUTE SHEET (RULE 26)

INTERNATIONAL SEARCH REPORT

International application No. PCT/US01/05150

A. *CLASSIFICATION OF SUBJECT MATTER IPC(7) :G01N 9/00, 33/48							
	US CL:435/183; 702/22 ccording to International Patent Classification (IPC) or to both national classification and IPC						
	DS SEARCHED						
	ocumentation searched (classification system followed	by classification symbols)					
	U.S.: 435/183; 702/22						
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched NONE							
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) STN: WEST							
c. Doc	CUMENTS CONSIDERED TO BE RELEVANT						
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.				
X	GOMIS-RUTH, F.X. et al. The helping hand of collagenase-3 (MMP-13: 2.7, ANG> crystal structure of its C-terminal haemopexin-like domain. Journal Mol. Biol. 1996, Vol. 264, No. 3, pages 556-566, see entire document.						
X	US 6,008,243 A (BENDER et al.) 28 D entire document.	1-7, 15-20					
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- Furth	ner documents are listed in the continuation of Box C.	See patent family annex.					
"A" do	ecial categories of cited documents: cument defining the general state of the art which is not considered	"T" later document published after the inte date and not in conflict with the appl the principle or theory underlying the	ication but cited to understand				
	to be of particular relevance earlier document published on or after the international filing date "X" document of particular relevance; the claimed invention cannot be considered to involve an inventive step						
cit	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other						
O do	special reason (as specified) document of particular relevance; the claimed invention came considered to involve an inventive step when the document means document referring to an oral disclosure, use, exhibition or other means 'Y' document of particular relevance; the claimed invention came considered to involve an inventive step when the document means being obvious to a person skilled in the art						
	· ·						
Date of the actual completion of the international search 12 JULY 2001 Date of mailing of the international search report 3,0 JUL 2007							
Commissio Box PCT	mailing address of the ISA/US oner of Patents and Trademarks	Authorized difficulties Tour James J. HARTTER					
_	Jo (703) 305-3230	Telephone No. (703) 308-0196					

INTERNATIONAL SEARCH REPORT

International application No. PCT/US01/05150

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)					
This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:					
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:					
2. Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:					
AND THE PARTY OF T					
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).					
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)					
This International Searching Authority found multiple inventions in this international application, as follows:					
Please See Extra Sheet.					
б,,					
1. X As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.					
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.					
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:					
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:					
m and the state of					
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.					

INTERNATIONAL SEARCH REPORT

International application No. PCT/US01/05150

BOX II. OBSERVATIONS WHERE UNITY OF INVENTION WAS LACKING This ISA found multiple inventions as follows:

This application contains the following inventions or groups of inventions which are not so linked as to form a single inventive concept under PCT Rule 13.1. In order for as inventions to searched the appropriate search fees must be paid.

Group I which consists of claims 1-7 is distinct as it addresses itself to the solution complex of the mixture of MMP-13 and the defined "Compound A." The solution is clearly distinct and different from the crystal complex, active site and methods that are claimed in succeeding groups and according claims.

Group II consists of claims 8-14. These claims pertain to the actual product of the crystal complexion its entirety. Thus it is distinct from Groups I and Groups 3-4. The group claims the whole crystal known as "Compound A" and the crystal is not in any other type of alternate environment or with any additional accountements.

Group III encompasses the claims of 15-20. These claims consist of the active site of the molecule of MMP-13. This chemical is a portion of the solution claimed in the first group and thus separate and distinct from the solution of Group I or the separate entity of "Compound A" that is claimed in Group 2. Thus these Groups are separate.

Group IV consists of claims 21-32 which claim a method of identifying an inhibitor or activator of the MMP-13 compound. The method that is embodied within this Group is clearly different from the proceeding groups. Firstly the claims within Group 4 are directed toward a method of accomplishing the task of identifying different entities and not a product itself. Secondly its actions are addressed to entities outside the compound itself and not limited to "Compound A" of the MMP-13. Based on the aforementioned reasons and the distinct nature of the claims defined in each of the groups, the instant application has a lack of unity due to each group having a different Special Technical Feature a summarized above for each group.